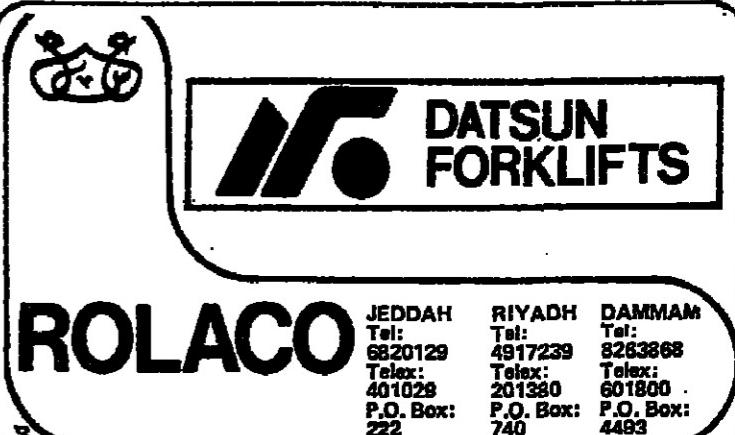




# arab news

SAUDI ARABIA'S FIRST ENGLISH LANGUAGE DAILY



TODAY IN  
arab news

### Chinese group expected

Several trade missions from the Republic of China will arrive next week in the Kingdom to discuss increasing business ties. They also plan to make arrangements for an exhibition which will take place this November or December. — Page 2

### Lebanon reconstruction

Lebanon's top economic planners say \$12 billion would be needed to help the country in postwar reconstruction if the present peace efforts proved successful. — Page 4

### U.S. favors parleys

A U.S. expert on Latin America emphasizes negotiation instead of confrontation and says "the potential cornerstone of peace" exist in Central America. — Page 5

### Ambrosiano affair

Cardinal Agostino Casaroli, the Vatican's secretary of state, was quoted as saying letters of patronage from the Vatican Bank to the late president of the collapsed Banco Ambrosiano did not necessarily imply full-scale guarantees. — Page 10

### IMF outlines plan

Industrial countries should place more emphasis on cutting budget deficits in order to reduce interest rates and speed global economic recovery, the International Monetary Fund says. — Page 11

### McEnroe, Connors crash

The top two seeds in the ATP Championships, Americans John McEnroe and Jimmy Connors, crashed out of the tournament when they went down to Steve Denton and Ivan Lendl respectively. — Page 12

### S. Africans killed

South Africa orders an investigation into Zimbabwe's report that three South African soldiers were killed in a clash with a Zimbabwean Army unit. Diplomats inspect the bodies in Harare. — Page 16

## Paris fears anti-U.S. attacks

PARIS, Aug. 22 (R) — France's newly appointed anti-terrorist chief is facing their first real test after a bomb blast Saturday indicated the possible resurgence of anti-American attacks in the French capital.

Police believe that the bomb which killed one disposal expert and maimed another may have been aimed at the commercial counselor to the U.S. Embassy. The bomb exploded outside the diplomat's home and near the flats of other American families.

One theory is that the device was attached to the car of the counselor, Roderick Grant, and may have been dislodged as he drove

away shortly before the explosion. If Americans were the target of Saturday's attack, it would add a new element to the anti-terrorist drive in France. Operations had already been tightened up last week.

Police are reluctant to give information about the progress of their investigations into Saturday's attack. But a spokesman said they were taking seriously a call in the name of the Lebanese Armed Revolutionary factions which claimed responsibility. The same Lebanese group said it was behind the Paris killing of U.S. Military Attaché Charles Ray last January.

The conference will discuss the Palestinian problem, the Iraq-Iranian conflict and the situation in Afghanistan as priority issues.

NICOSIA, Aug. 22 (AP) — Beirut International Airport, closed immediately after the Israeli invasion of Lebanon nearly three months ago, may reopen at the beginning of September, according to Lebanese national radio monitored here.

The radio said the airport, at present under Israeli army control, could reopen after the arrival next week of the American and Italian contingents to the multinational buffer force.

Meanwhile, Israeli forces restored West Beirut's electricity supply Sunday morning after a monthlong blackout. The Israelis had cut off power and water supplies to the 500,000 inhabitants of the western half of the city July 26 to tighten their blockade.

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## Delegates demand concerted OIC steps

NIAMEY, Aug. 22 (Agencies) — Delegates who arrived here for the 13th Islamic Conference foreign ministers' meeting Sunday in the Niger capital stressed the need for concerted action against threats to the security of the Islamic world.

This conference is taking place at a very critical time for the Muslim world," a Palestine Liberation Organization representative said. "We hope it will result in positive results at a moment when we are all victims of barbaric acts by the United States and Israel, its right hand," he said, adding that the conference must find a solution to the problem of Lebanon.

The Niger newspaper *Le Sahel* noted in an editorial that the Muslim world should react unitedly against the "savage and criminal acts" of the Israeli offensive in Lebanon. As delegations from Asia, the Middle East and African countries arrived here, the Libyan delegation made an abrupt exit. Delegation leader Mufitah Zawam said they were subjected to body searches and detailed examination of their luggage and were detained by police for five hours.

Niger sources at the meeting said they were not surprised at the move. They noted that tight security measures must be observed at any international conference, and that the Libyans were the only delegates to take offense. The Organization of Islamic Conference Secretary-General Habib Chatti said the Libyans' decision to leave was a "bilateral affair" concerning Niger and Libya. "Our organization regrets the absence of any member state, whichever it might be. We deplore this incident which is foreign to the Islamic Conference," he said.

The conference will discuss the Palestinian problem, the Iraq-Iranian conflict and the situation in Afghanistan as priority issues.

## Commandos arrive in Jordan, Iraq

AMMAN, Aug. 22 (Agencies) — A group of 292 Palestinian fighters evacuated Saturday from Beirut arrived at a military air base near the Jordanian capital Sunday from Cyprus, it was reported.

The Palestinians were welcomed by King Hussein of Jordan, Prime Minister Mudar Badran, commander-in-chief of the Jordanian Army, Zeid Ben Shaker, and the head of the Palestine Liberation Organization (PLO) in Amman, Abdul Razak El Yehyah. They had been flown in from Larnaca on board two planes from the Lebanese airline MEA.

Another 135 Palestinian fighters from the Lebanese capital arrived in Baghdad earlier Sunday after transiting through Cyprus, it was reported. All were members of the pro-Iraqi Arab Liberation Front. They were met at Baghdad airport by Naim Haddad, member of the Iraqi Revolutionary Command Council, members of the Arab Liberation Front, and a number of Palestinians.

Earlier at Larnaca, Farouk Kaddoumi, foreign affairs spokesman of the Palestine Liberation Organization (PLO), said goodbye to the 400 commandos, praising them as "freedom fighters" who had not left Beirut in defeat.

Kaddoumi said the dispersal of the PLO army was not the end of the fight for a Palestinian homeland. "This is the beginning of armed struggle," he said. "Our fighters will continue to fight on all levels to gain a homeland." The departure of the 400 — about 140 for Iraq and the rest for Jordan — was delayed while Kaddoumi flew to Larnaca from Paris, according to the pilot of one of the Middle East Airlines planes taking them to their new exile homes.

## Beirut Airport may reopen soon

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**Exhibition, trade boost planned**

## Two ROC trade teams expected next week

By Suresh Shah  
Arab News Staff

JEDDAH, Aug. 22 — In order to increase the trade between the Republic of China and Saudi Arabia, the China External Trade Development Council (CETDC) is organizing two high level trade missions to the Kingdom next week and plans a big trade exhibition November-December this year.

The first 21-member Food Packers Trade Group, headed by Huang Chin Ying, sponsored by the government and organized by CETDC will arrive here on Aug. 26 and stay until Aug. 31. Thereafter, it will visit Riyadh for three days and go to Damman.

"At present our food exports to this country are comparatively very small, so the delegation is coming on an export promotional tour of the Kingdom," said Mutiullah J.L. Mai, economic counselor at the ROC Embassy here.

He told *Arab News*, the members of the mission will bring with them samples of canned vegetables, foods, seafoods, juices, frozen vegetables and fruits, freeze-dried fruits, candies and biscuits, instant noodles, fresh fruit and biscuits.

### **Hamad commends Kingdom's goals**

RIYADH, Aug. 22 (SPA) — Qatari Crown Prince Sheikh Hamad Bin Khalifa Al-Thani commended the Saudi Arabian armed forces plans to "develop its capabilities and skills to absorb the most sophisticated military technology."

In an interview with *Al-Yom*, Sheikh Hamad described the graduation of U.S. F-15's trainees who received training and studies in the Kingdom as "one of the marvelous achievements of the Saudi Arabian armed forces under Prince Sultan's care and guidance."

He said his recent visit to Saudi Arabia reflected the "existing close relations between the two countries."

Sheikh Hamad wished the armed forces progress and success and described it as a part of the Arab Gulf force."

## From page one

givings for the future welfare and security of Jewish communities in many Western countries. As public opinion became daily more horrified at the extent of human suffering caused by the relentless bombardment of Beirut, leaders of world Jewry — supporters as well as opponents of Menahem Begin's government — became increasingly concerned at the possible effects.

This kind of atmosphere is causing grave anxiety among the Jewish community. We have not been experiencing such open hostility since before the Second World War," Hayim Pinson, secretary-general of the Board of Deputies of British Jews, said in a television interview. "The atmosphere is becoming in some cases very anti-Jewish as well as anti-Israel."

A leading member of the rightwing, pro-Begin Herut movement in Europe, Eric Graus, said that the war in Lebanon had created a climate which was becoming very "unhealthy" for all Jews.

More spectacularly, in Greece sympathies for the Palestinians in Lebanon had provoked a strong wave of anti-Semitism that had created alarm among the country's 5,000-strong Jew-

## Bilateral relations discussed

TAIF, Aug. 22 — West German Finance Minister Manfred Lahnstein Sunday conferred with Second Deputy Premier of Defense and Aviation Minister Prince Sultan on developing bilateral relations. The meeting was also attended by Finance and National Economy Minister Muhammad Abu Al-Khalil. Later in the day Lahnstein left the Kingdom.

Lahnstein Saturday night discussed with Abu Al-Khalil a number of issues pertaining to bilateral relations and questions on the agenda of the upcoming meeting of International Monetary Fund (IMF) and the World Bank in Toronto in early September.

He also reviewed separately with Industry Undersecretary Dr. Faud Al-Farsi means to enhance industrial cooperation between the two countries and the German companies contribution to industrialization in Saudi Arabia.

## Makkah plans new estate for industry

JEPPAH, Aug. 22 — A well known personality, who preferred to remain anonymous, has donated a four square kilometer area in Makkah for establishing an industrial estate, according to *Al-Nada* Sunday.

The Higher Planning Committee of Makkah, headed by Governor Prince Majed, is studying the citizen's offer and the municipality has agreed in principle to the idea. The donor also offered to plan the site, located about 10 kilometers away from the Holy Haram, on the Laith Road near the Makkah Ring Road.

Meanwhile, Makkah Municipality's Undersecretary for Technical Affairs Sharaf Al-Abdali told the newspaper that expropriations are underway on the final part of the Ring Road which will pass through the Ruba Atta area upto King Fahd Street.

ginger and garlic, and condiments. These leading reputable manufacturers and suppliers of foodstuff will hold business discussions with local importers and explore the market potential for their products.

Another 35-member trade mission dealing in major export items will arrive here Aug. 29 and will stay until Sept. 4. CETDC will organize a trade exhibition at Hyatt Regency Hotel in Jeddah from Nov. 21-27 and at Gulf-Meridien Hotel in Al Khobar on Dec. 7-13, where 93 manufacturers will participate and will display all types of export items including machinery, said Mai.

Trade between the two countries has been growing constantly during the last three years due to close relations, but the Republic of China is planning to boost its exports to the Kingdom to reduce the widening trade gap. ROC imports nearly 40 percent of its oil requirements from Saudi Arabia. Its total import from Saudi Arabia in 1979 was SR3.287 million, it jumped to SR5.961 million in 1980 and increased further at SR6.435 million last year.

ROC's exports to this country mainly consist of textiles, garments and sugar. The total exports of all items during 1979 was SR1.990 million, it gradually increased to SR2.238 million in 1980 and to SR2.577 million last year.

Mai said Saudi Arabia is the fifth largest importer of goods from the Republic of China, next only to the United States, Japan, Hong Kong and West Germany. It is the fourth largest supplier of the goods to the Republic of China next only to Japan, the United States and Kuwait.

"Our imports from Saudi Arabia were last year were up 26.7 percent over 1980," Mai added.

The Republic of China's exports of processed agricultural products to all countries registered a 50 percent increase in the last three years. It was \$819.6 million in 1979, moved up to \$1.1 billion in 1980 and further up at \$1.22 billion last year. Mai said total food stuff exports by the Republic of China in 1980 included fishery products \$306.11 million; Sugar \$228.25 million; canned food \$281.9 million; Rice \$60 million; Tea \$28.54 million and bananas \$25.59 million.

arab news Local

**Report covers 1970-80**

## Saudi revenues record 40-fold rise

TAIF, Aug. 22 (SPA) — King Fahd has expressed appreciation for the Planning Ministry's efforts to ensure the Kingdom's development. The king's remarks came in a cable reply to Planning Minister Hisham Nazer after he submitted a report on the achievements of the First and Second Five Year Development Plans from 1970 to 1980.

According to the report government revenues from oil and other sources increased 40-times by the end of the Second Five-Year Development Plan to SR211 billion from SR5 billion by the end of the First Development Plan. Actual state expenditure also rose 34-times from SR6 billion to SR186 billion during the same period.

Actual development project expenditures rose by an annual rate of 54 percent from SR2 billion in 1970 to SR89 billion in 1980. Actual expenditure on aid and transfer increased by 57 percent per year from SR1.7 billion to SR65 billion. Expenditures on salaries and services realized an annual growth rate of 34 percent from SR2 billion to SR32 billion.

The real Gross Domestic Production (GDP) for the economy in general grew at an annual average rate of 10.7 percent. The Kingdom's real GDP increased almost by three times during the decade from SR17 billion to SR49 billion, the report said.

The average growth rate in petroleum production was 20 percent until 1973 when its value increased from SR9.6 billion to SR20 billion. Thereafter, the average growth rate remained at 2.8 percent. The production

growth of the non-petroleum sector increased at an annual rate of 13.8 percent and its volume rose from SR7.5 billion to SR22 billion.

Per capita income increased from SR2,833 during 1969-70 to SR5,550 in the 1979-80 using 1969-70 prices. Using 1979-80 costs, per capita income became SR43,863, the report said.

Fundamental changes occurred in the components of the non-oil real GDP. Construction achieved an average annual growth rate of 26.8 percent doubling its contribution to domestic production, from 9.4 percent to 19.5 percent. Agriculture attained an average growth rate of 5.3 percent, which in turn reduced its participation in the GDP from 13 to 6.5 percent.

Crude oil and natural gas sectors incurred an annual growth rate of 9.1 percent increasing participation from 84.7 to 91.6 percent. The petroleum refining sector made a 3.2 percent annual growth, however, its contribution to the GDP dropped to almost half from 13 percent to only 7.6 percent.

The report stated that the annual average growth of the real Gross Fixed Capital Formation was 23.4 percent and its volume increased by more than six times from SR2.6 billion to SR16.6 billion. The real gross fixed capital's share in the real GDP increased by from 15 to 30 percent, while the petroleum sector realized a growth of 15.6 percent and the non-oil sector increased from 15 to 30 percent. Thus the annual growth rate for the petroleum sector was 15.6 percent, the pri-

vate non-oil sector 22.7 percent and the government non-oil sector 27.3 percent.

Due to the accelerated economic development featured in this period, the share of contributions for machinery and transport in the real gross fixed capital formation increased by almost two times from 24 percent to 45.3 percent. At the same time, the participation of the construction sector decreased from 75.8 to 54.7 percent.

The report referred to the five credit institutions formed during this period to expand the investment base and facilitate loans for the private sector. Funds paid annually to the private sector through these institutions increased from SR16 million to SR19 billion. The total funds disbursed amounted to SR78.8 billion. The report said the Kingdom's annual export growth rate reached 38.7 percent, increasing from SR11 billion to SR363 billion. Imports rose from SR3 billion to more than SR100 billion at an average rate of 37.5 percent.

The value of crude oil exports had an annual increase of 40.3 percent, while refined products rose by 24.3 percent. This share increased from 83.2 percent to 94.5 percent while the refined products' export share dropped from 16.4 to 4.6 percent.

### National standard proposals circulated

RIYADH, Aug. 22 (SPA) — The Saudi Arabian Standards Organization has circulated eight proposals for national standards to government departments and private organizations concerned.

The standard proposals dealt with aluminum conductors, including aluminum magnesium silicon, electrical plugs and specifications for home and public use, sodium high pressure vapor lamps and methods for testing them. Two other proposals concern specifications for fried potatoes and chocolates.

## Prayer Times

Monday	Makkah	Madinah	Riyadh	Dammam	Buraidah	Tabuk
Fajr (Dawn)	4:36	4:34	4:05	3:50	4:15	4:42
Dhuhr (Noon)	12:23	12:24	11:56	11:42	12:07	12:36
Asr (Afternoon)	3:47	3:53	3:24	3:13	3:38	4:10
Maghrib (Sunset)	6:46	6:50	6:22	6:10	6:34	7:06
Isha (Night)	8:16	8:20	7:52	7:40	8:04	8:36

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• AL KHOBAR: Tel: 8646792, • DAMMAM: Tel: 8343188

## Madinah prepares detailed pilgrim service, safety plan

MADINAH, Aug. 22 (SPA) — The Madinah Traffic Department has drawn up a comprehensive plan to assure the safety of pilgrims and citizens and provide improved services.

According to Maj. Ibrahim Al-Radadi, Madinah traffic director, traffic stations and patrols have been placed on the highways, especially the Madinah-Jeddah and Madinah-Qassim roads. Sufficient equipment and personnel have been stationed in the centers, in addition to patrol cars.

Several temporary centers have also been set up inside the city and at its entrances. These include the airport intersection center, the Arwa center, the land pilgrims city center and the sea pilgrims city center, in addition to three other centers already existing. Sufficient numbers of patrols have

been allocated to the Yanbu, Yanbu Al-Nakheel and Amliji roads, Maj. Radadi said. Patrols have been reinforced to cover all markets and streets, he added.

Emergency call boxes have been installed in many streets and public places, especially places where there are no telephones. These devices yellow-boxes with buttons which give a signal when pressed will be operated in the coming few days, Radadi said. The boxes have buttons for summoning an ambulance, traffic police, police or fire brigade.

Radadi said the statistics department also have been reinforced to be capable of surveying the number of vehicles inside Madinah and on the highways leading to and from the city.

## UPM continuing massive building program

By Robert Fraga

DHAHRAN, Aug. 22 — In what must rank as one of the world's most ambitious university development programs, the University of Petroleum and Minerals (UPM) is continuing its own massive building program.

Last year UPM inaugurated a three-building Conference Center which includes, besides the conference facility itself, a 400-car garage and a home for the College of Environmental Design with a potential enrollment of 200 students.

A Cafeteria with a seating capacity of 1350 was finished about 12 months ago. Recently in the first phase of its student housing program, the UPM received a six-house unit designed to room 432 undergraduate students, two students per room. Each house has, as well as study and recreational areas, an apartment for a graduate student who will act as house monitor.

Also recently finished is an extension to the Faculty Recreation Center with a new men's swimming pool, a sports hall, library, and faculty club room.

Visitors entering the university now approach it through an entry gate completed last spring.

Building continues apace, as explained by UPM Secretary General, Dr. Saleh Bakrehbah, with a five-unit complex to the south of the present Jebel campus.

The SR230 million complex contains two 400-car garages, two classroom-laboratory-office buildings, and the new 10-story administration building which will unify geographically the various administrative functions of the university.

Construction of this complex was interrupted last year by the discovery, during excavation work, of a cavern known geologically as a solution cavity. A combination of drilling and probing revealed the existence of a string of such cavities created by water in the indigenous limestone. These caverns had to be filled in before work could proceed.

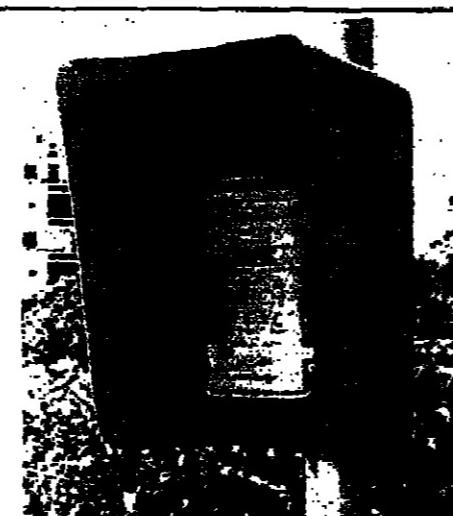
In addition to the construction on the Jebel, UPM is to possess a 2,000 square meter press building. Slated for completion in about six months at a cost of SR9 million, the

factory will have composing, printing, and binding equipment, a photolab and facilities for artwork.

200 faculty housing units are rising on the southern perimeter of the UPM campus at a total cost of SR125 million, and work began two months ago on a new SR43 million central kitchen. Located to the north of the present academic complex of the Jebel, the new kitchen will be finished in the fall of 1983.

The awarding of a construction contract is under consideration for the 15,000 square meter heavy equipment laboratories. The project, which comprises a reaction floor for civil engineering, a high voltage lab for electrical engineering, space for a dynamometer and internal combustion engine labs, will require two years to complete.

Design work is underway for a new 30-bed clinic to be constructed between the main

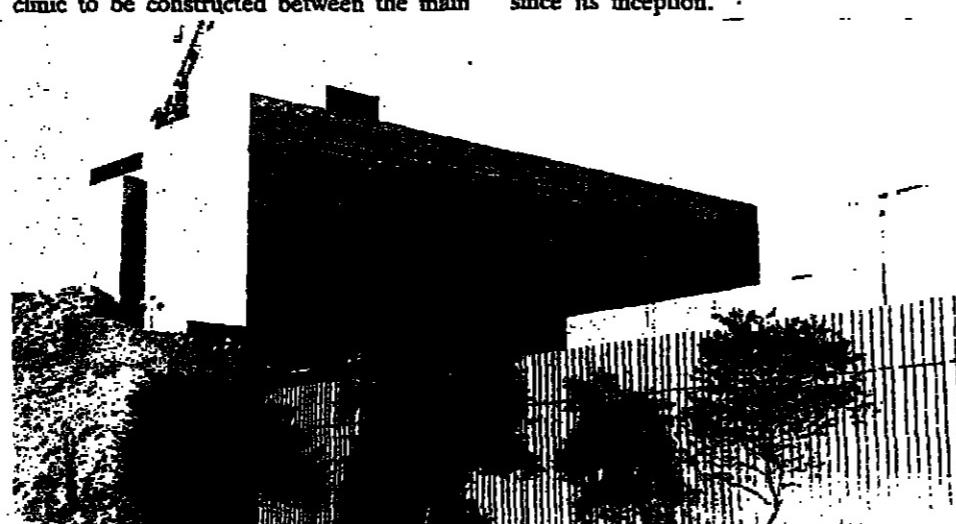


CALL BOXES: Madinah has installed emergency call boxes like this one in Jeddah in many streets and public places. These yellow boxes have buttons to summon ambulances, traffic police, police or the fire brigade.

UPM road and the stadium. When completed three to four years from now, the 5,000 square meter clinic will employ 25 doctors with specialties in gynecology, obstetrics, dermatology, pediatrics, ophthalmology, ENT, dentistry, and physical therapy.

Also commissioned is the design work for a 6,000 square meter energy center to be equipped with a neutron generator, an accelerator facility, and seven physics labs. The purpose of the center will be to train technical manpower for the development of nuclear energy as well as to provide adequate facilities for nuclear engineering research. Also scheduled are 110 new faculty-staff houses.

Much of the design work at UPM has been done by the Houston-based architectural firm of Caudill, Rowlett, and Scott (CRS) which has been associated with the university since its inception.



(Photograph by Robert Fraga)

UNIVERSITY CONSTRUCTION: One of the world's most ambitious university development programs is now underway at the University of Petroleum and Minerals (UPM).

### Qatif kindergarten serves welfare society

QATIF, Aug. 22 (SPA) — A SR200,000 kindergarten was opened Sunday by the Qatif Social Service Welfare Society at the limited income people's zone. The kindergarten, equipped with all necessary primary education methods and toys, accommodates 220 children.

The society is currently engaged in a program for expanding kindergartens under its jurisdiction. It is also studying constructing new buildings in view of the popular responsiveness these projects are enjoying.

The Qatif society has so far established five kindergartens in various parts of the region.

### Jeddah notes increase in telephone services

JEDDAH, Aug. 22 (SPA) — Operative telephone lines in Jeddah have now reached 123,000 while coin telephones increased to 372, it was announced Sunday. Coin telephones will reach 478 by next year to provide better service for the public.

There are four international telephone cabins in the city operating with high efficiency. The 10 telephone exchanges serving Jeddah have a capacity ranging between 1,000 and 30,000 lines. Saudi Telephone also has a major role during the pilgrimage season as there are 1,500 to 1,800 telephone lines, in addition to the microwave trunk service.

## E. Province post office to open soon

DAMMAM, Aug. 22 (SPA) — The Eastern Province's Postal Department is preparing to move into its new SR250 million headquarters after the recent completion of the complex. The new complex, one of three built by the Ministry of Posts, Telegraphs and Telephones in Riyadh, Jeddah and Dammam, comprises two buildings.

Faisal Fadi Al-Faisal, the region's postal director, said Sunday that one building will be allocated to postal messages while the second houses administrative offices for the Eastern Province. In addition, to the administrative offices and various operation rooms, the complex accommodates a mosque, a canteen, lecture hall, a secondary postal institute and a postal training center which has a language laboratory. A parking lot, workshop and a desalination plant are located on the ground floors.

Faisal said that the complex has 8,000 postal boxes and a museum for postal and commemorative Saudi Arabian stamps. An electronic system supervises the postal traffic in the complex, while a selection of modern equipment carries and distributes mail.

The complex has the latest postal technology. Faisal said pointing out that the international distribution hall has 100 sorting machines.

The postal director said that the subscribers' box numbers will not change and the move will be announced soon. The administrative department was to begin its functions at the new complex as of Saturday while the other departments start Sept. 3. Faisal added.

### Diesel engines leave factory

LONDON, Aug. 22 (LPS) — Two of the five diesel engines which will drive the alternators in a new power station designed to bring electricity to the Samtah area of Saudi Arabia have left the factory prior to delivery.

The station for the Samtah project is due to be commissioned by the Electricity Corporation of Riyadh late next year. It placed the contract, worth over £3 million, with Mirrlees of Stockport, northwest England, for three 12-cylinder and two six-cylinder diesels.

The 12-cylinder engines are rated at 735 bhp with an alternator output of 5245 kW and the six-cylinder at 3675 bhp with an output of 2611 kW when running at 600 rpm.

The engines will be coupled to alternators to provide generating sets at the new station. The alternators are being built by Brush Electrical Machines of Loughborough in the English midlands. Both Mirrlees and Brush are members of the Hawker Siddeley group of companies.

### Scientific institute holds final ceremonies

RIYADH, Aug. 22 (SPA) — The Shafa Scientific Institute's summer center holds its final ceremony Monday to mark the end of its activities for the current year. Prizes will be given to distinguished participants in the Holy Quran contest and the other cultural, social, art and sports activities. The prizes total SR40,000.

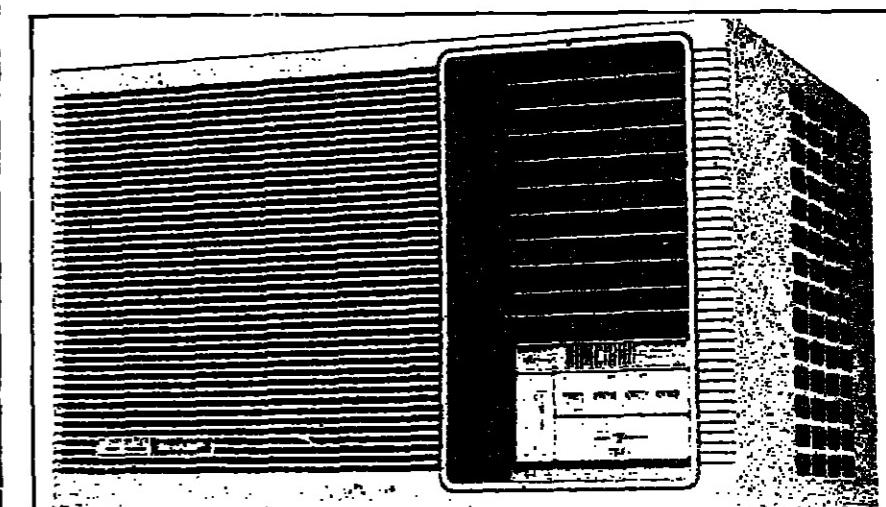
### Coaches begin course

DAMMAM, Aug. 22 (SPA) — A 15-day course for Arab basketball coaches began at the Dammam Youth Hostel Saturday. Participants come from Kuwait, Jordan, Sudan, Yemen, Libya, Bahrain, Palestine, Somalia and the Kingdom.

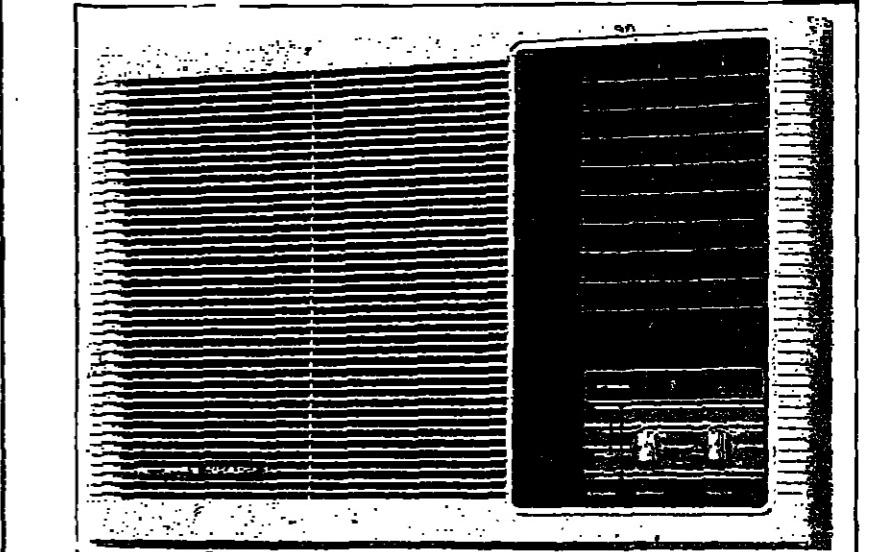
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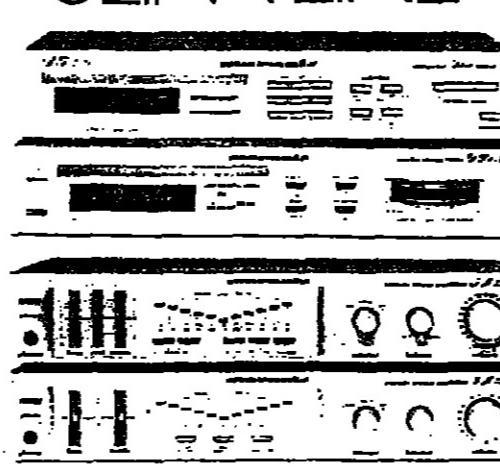
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*Beirut buildings destroyed***Lebanon needs \$12b for reconstruction**

BEIRUT, Aug. 22 (AP) — Lebanon's economic planners say \$12 billion, mostly in grants and easy loans from abroad, would be needed to help the country in postwar reconstruction if the present U.S.-sponsored peace effort proved successful.

The reliable survey has been undertaken yet, but preliminary studies indicate the widespread destruction caused since June 13 Israeli invasion has added about \$4 billion in overall reconstruction costs, the officials say.

Lebanon municipal authorities estimate that in West Beirut alone the Israeli air, naval and artillery bombardment has destroyed or heavily damaged about 25 percent of the buildings. Local newspapers quoted a Swiss architect after a tour of the devastated sector as saying the demolition and clearing of the destroyed structure would cost a staggering amount."

Lebanon Governor Mitri Ammar said in an interview that the city's top priority is to restore basic services and to clear rubble and garbage piled up in many sections of West Beirut "to give the city a semblance of normalcy." The work will start soon after Israeli commandos complete their withdrawal in early September and the clearing of landmines.

Mahmud Attallah, chairman of the National Council for Development and Reconstruction, said building must start as soon as "we are confident of peace" in order to boost the morale of the people and the commitment of the state. The 12-member council, with broad powers to plan, coordinate and execute reconstruction, was established in

1976 after the 19-month civil war, but because of the continuing hostilities the council's work has been largely limited to carrying out what Attallah described as "emergency-type catchword projects."

"Nobody had foreseen the scale of destruction, but given the country's basically sound economy and the resiliency of the people, I am confident we can successfully meet the challenge," said Attallah in an interview in his presidential palace office where all the windows were blown out in a rocket attack last month.

For a country that traditionally earned more than two-thirds of its income from services-related industries — banking, trade, tourism and medical care — Attallah said the most urgent task is to restore confidence by demonstrating that Lebanon is "serious about rebuilding now, despite internal turbulence and instability in the region."

Attallah said the reconstruction to be effected will have to be a global effort involving the United States, Western Europe and international organizations. But he said he expects a major portion of the money to come from the oil-producing Arab countries.

Lebanese officials say that the United States has let it be known that it is prepared to play a significant role in the reconstruction. It has earmarked \$15 million in humanitarian relief and an additional \$50 million request is now before Congress for relief work. A three-member team from the U.S. Agency for International Development recently spent three weeks in Lebanon, visiting all battle areas except West Beirut. The team is expected to return soon



DAMAGE: A Palestinian fighter points to the extensive damage caused by the brutal Israeli bombardment of residential areas in West Beirut early this month. The cost of postwar reconstruction in Lebanon has been put at \$12 billion.

to make a comprehensive recommendation for reconstruction aid.

Attallah said the shortage of personnel is one of the most serious factors hampering the rebuilding effort. He noted that almost all government ministries are understaffed, with some offices functioning with one-

third of their normal manpower. Serious shortages of labor have also hit the private sector. Government figures show at least 200,000 workers have left the country of three million inhabitants for other Arab countries since the civil war and have not returned.

**Soviets build missile base****Ethiopia, Eritrean says**

DAKAR, Senegal, Aug. 22 (R) — An Ethiopian military leader has accused the Soviets of building a missile base and supplying weapons in Ethiopia with the aim of hot intervention in the region. The missile range missile base was built earlier this year in Musa Ali Mountain, 35 kms between Djibouti and the Ethiopian Red Sea port of Assab, Taha Nur told Reuters.

"Now they (the Soviets) have built a missile base there" said Nur, a leader of the Eritrean National Liberation Front-Popular Liberation Forces (NLF-PLF).

He said the Russians had brought huge quantities of arms and ammunition to the Eritrean Red Sea port of Massawa and nearby Dahlak island in recent months. "The supply is enough to meet the needs of Eritrea and South Yemen for the next 10 years," Nur said.

**Afghan Mujahedeen meet Chatti**

NIAMAY, Aug. 22 (AFP) — Six Afghan resistance leaders met here Saturday night with Haji Chatti, secretary-general of the organization of Islamic Conference, on the eve of the OIC's ministerial meeting in Niamay's capital. Chatti said the six members of six different Mujahedeen alliances, were working to set up a united front against the Soviet presence in their country.

The Afghans were to choose one of their number to address the ministerial meeting.

The secretary-general said the Afghans had

**Fighting escalated in Afghanistan**

Afghan President Babrak Karmal said in a broadcast last Wednesday that the country's armed forces had been ordered to step up their fight against the freedom fighters.

Earlier this month the Afghan government announced conscription laws extending the draft period from two to three years and calling up young people previously exempt from service.

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**'War had opposite effect'****West Bank, Gaza Arabs hail PLO withdrawal from Beirut**

TEL AVIV, Aug. 22 (R) — Palestinians in the West Bank and Gaza hailed the start of the Palestinian withdrawal from Beirut by displaying pride that contrasted with the despondency felt when Israel invaded Lebanon.

"The decision of the PLO (Palestine Liberation Organization) to leave Beirut shows that we are a civilized people who know what humanity is," said Ziad Abu-Ziad, editor of the East Jerusalem Arabic-language newspaper *Al-Faqir*. Moderate and extreme Arabs in the occupied territories said the PLO men fought like heroes and were leaving Beirut to prevent Israel destroying it and killing civilians.

"We weren't crushed and we showed that we are the only Arab force that can stand up against the most powerful army in the Middle East," said Abu-Ziad who favors an independent Palestinian state.

Defense Minister Ariel Sharon has repeatedly said that Israel's invasion of Lebanon will open the way for an Israeli-imposed autonomy in the West Bank and Gaza Strip by showing Arabs there that the PLO cannot achieve its goals.

**BRIEFS**

KHARTOUM, (AP) — Sudan has decided to host additional 400 Palestinian commandos at the request of the Palestine Liberation Organization, Sudanese First Vice-President Maj. Gen. Omar Mubammad El Tayeb said Saturday.

CAIRO, (AP) — A ship loaded with 3,000 tons of food and medical supplies left the Mediterranean port city of Alexandria Saturday enroute to Beirut, the Middle East News Agency reported.

CAIRO, (AFP) — Egyptian Minister of

State for Foreign Affairs Boutros Ghali left here Sunday for Paris for talks with French External Relations Minister Claude Cheysson on Lebanon and the future of the Palestinians after their evacuation from Beirut.

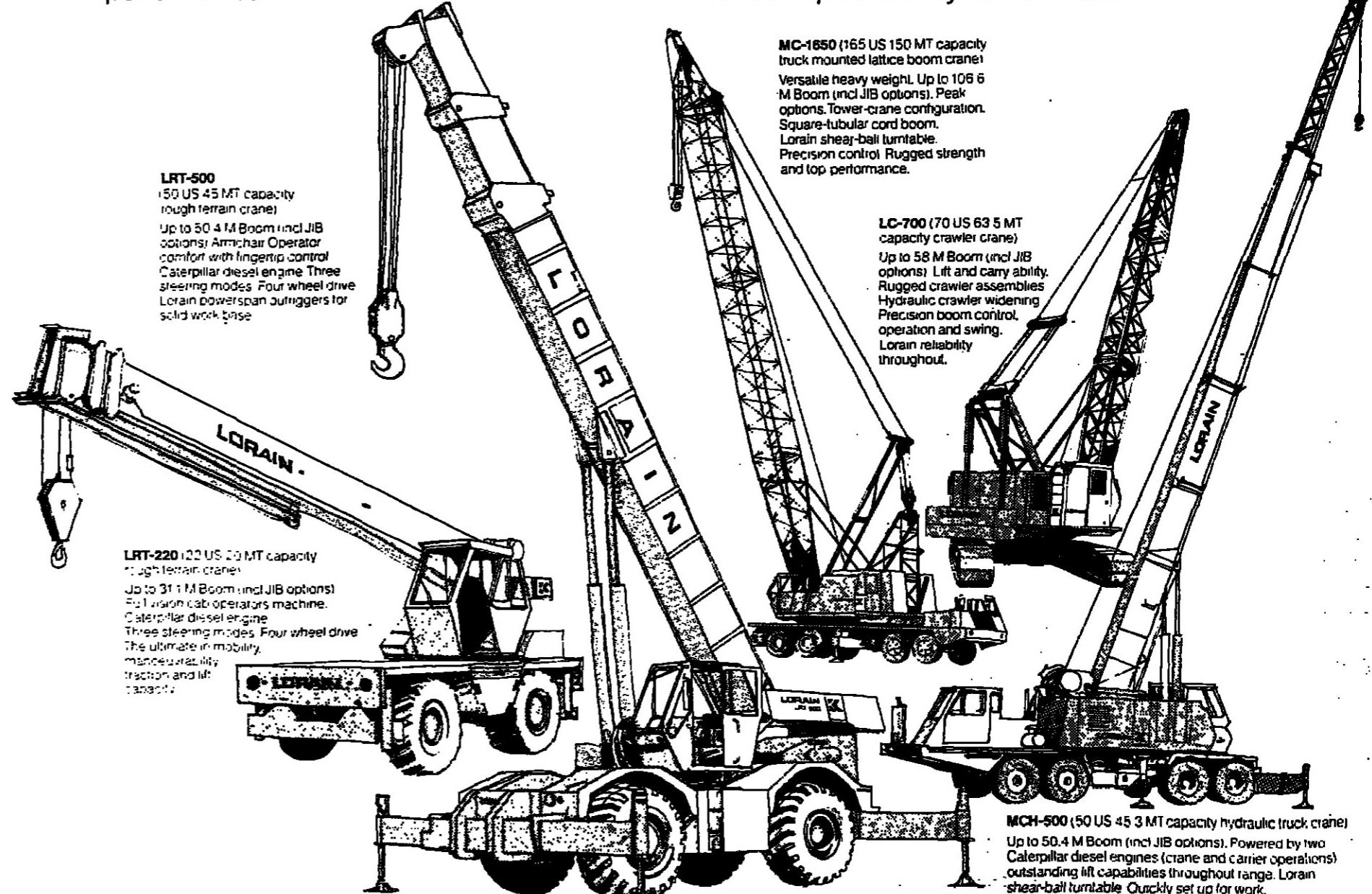
AMMAN, (R) — A Lebanese member of parliament was shot at and wounded Sunday in the Baalbeck area east of Beirut, the radio of the right-wing Phalangist party said. The radio, monitored in Amman, said deputy Hassan Rafai was taken to hospital in critical condition.

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# Massive migration turns Bombay into festering slum

By Stuart Auerbach

**BOMBAY** (WP) — The men pull heavily laden handcarts through Bombay's teeming streets or sit under trees selling fruits or vegetables. If they are lucky, they earn \$1.50 a day, but often they end up with nothing. Their homes are altered pieces of burlap sacks stretched over bamboo poles on the pavements of India's richest city.

"This is where we can make a living and feed ourselves. There is nothing for us in our village," said Kamal Baskar, 21, as she stood in front of her burlap hovel. Her neighbor, Asha Gaewad nodded in agreement. Their husbands were off selling mangoes and garlic on a steamy hot pre-monsoon afternoon.

They are part of a massive migration from rural areas, flooding into Bombay at a rate of 300 families a day and threatening to turn one of India's most beautiful cities and certainly its most cosmopolitan one into a festering slum.

As many as 1 million people, 2 1/2 times as many as 10 years ago, live on the city pavements, leading former Mayor Murli S. Deora to say, "the specter of Bombay going the Calcutta way — the living example of a dying city — is much before us."

He said Bombay's 9 million residents already overcrowd the city "like a giant sack stuffed with garbage."

"In the past decade," said *The Times of India*, whose headquarters is here, "Bombay has become noisy, dirty, highly polluted and full of filth, squalor, disease and ugliness."

The decay of the once-grand city of Bombay provides the most vivid example of the increasing urbanization of India, a vast country of 700 million people that until recently had escaped the problems caused by mass movements of its people from the land to cities that are ill-prepared to handle them.

Fifty years ago, only 10 percent of all Indians lived in urban areas. By the 1971 census, that figure had increased to 20 percent of the population. In the past 10 years the proportion of Indians living in cities has jumped to almost one-fourth of the population.

The *Indian Express* called these new urbanites "the dispossessed, marginalized, disadvantaged and technically displaced from the countryside."

Urbanization problems are familiar throughout the world, but somehow Bombay managed until now to be different from the rest of India, a worldly gem on the Arabian Sea.

It was the jewel of the raj, the "Gateway to India" for the British colonialists, and became the throbbing heart of independent India's industrial and financial life.

Bombay is India's inland town, home of the massive Hindi film industry, and the only metropolis in the country with a glittering skyline of high-rise apartments. They are set along a series of Arabian Sea bays.

Bombay still offers amenities not found in other Indian cities: and overcrowded but speedy and generally efficient commuter rail line to its suburbs, where many of the poor live, and a telephone system and power grid that usually work.

Bombay's share of India's wealth is completely out of proportion to its size. It generates, for instance, one-third of all the income tax collected by the Indian government and is reputed to be the center of a thriving underground "black money" economy that is estimated to amount to 30 percent of the country's \$160 billion gross national product.

Bombay is a city of conspicuous consumption, with its wealth showing on the streets, where people import foreign autos despite the high duty. It is the most expensive city in the country to live in.

But Bombay has begun to break down under the new population pressures. The massive power failures that are a regular part of life in Delhi and Calcutta hit Bombay for the first time this June, and parts of the city remained in darkness for as long as 10 hours.

Bombay has the most polluted air of any city in the country. Its water supply and

## Baffling mysteries surround ancient Inca ruins in Peru

By Hugo Levans

**LIMA** (AFP) — The recent discovery of underground temples and a maze of galleries beneath the ruins of Machu Picchu in southern Peru, the lost city of the Incas, may offer some insight into the baffling mysteries that surround these ancient Inca ruins 150 kms from Cuzco.

While exploring the northeast zone of the famous site earlier this year, a Peruvian archaeologist Julinho Zapata, came across the entrance to a underground gallery overrun by vegetation, whose walls and top were covered with carved blocks of granite, evenly laid out.

He was unable to delve any deeper into the gallery because of cave-ins, water seepage and bats. But now further research has begun at the site, though it will undoubtedly take considerable time and money to explore the vast web of galleries, one of which is believed to run to the base of a neighboring mountain.

Manuel Chavez, a Peruvian archaeologist and professor at Cuzco University, suggested the galleries might lead to tombs, temples and maybe even Inca places under Machu Picchu.

Prof. Chavez also noted the existence of several underground temples around Cuzco that were built by the Chavin civilization, before the Incas.

Meanwhile, the galleries are yet another link in the great mystery of the ruins of Machu Picchu, which were discovered in 1911 by Hiram Bingham, an American from Yale University.

Bingham had undertaken a great adventure — to locate the city where the Incas had

sewage systems are decrepit. An antiquated main burst seven months ago, leaving 1.5 million residents without water for four days and spurting anti-government riots in the city. Even without breaking mains, about 20 percent of water moving through the city's pipes is lost through leaks and seepage.

Only one-fifth of the city's sewage is treated, and the beaches that used to be a major attraction of the city are polluted.

Author Kushwant Singh, editor of *The Hindustan Times*, who has been an unabashed fan of Bombay, described returning there after a six-month absence and finding "my love for Bombay turned to sour hate."

"The stench...that pervades this queen of Indian cities brought vomit to my throat," he said.

There are 570 officially designated slums scattered throughout the city, including the one believed to be the largest in Asia, Dharavi, where a half million people live.

In all, about half of Bombay's residents live on the pavements, in cramped 10-square-foot rooms in officially declared slums, or in ancient tenements called chawls that collapse on an average of one per day during the torrential rains of the monsoon.

Drainage in the city is so bad that the city's traffic-control branch published a list of 17 points expected to flood during the monsoon.

Deora, the former mayor, estimated that the city can take care of about 3 million people — a third of the present population drawn by the magnet of the money that can be made here.

Bombay is built on seven islands that in the past three centuries have merged into a narrow neck stretching into the Arabian Sea. But most of the jobs in the city are concentrated on its southern tip, while the workers live in suburbs that spread as far as 20 miles inland.

While Bombay's industries like the cheap labor coming in from the country, politicians proposed last year to limit migration to the city through a sort of internal passport — a motion that later was declared both illegal and impractical.

So Indians keep flocking to Bombay, willing to put up with slum or pavement living for the job opportunities and the chance for advancement that Bombay offers.

One slum-dweller's son, for instance, 14-year-old Arshad Hussain, finished 11th among all students in the city in merit exams. Called "a nugget in the dirt" by *The Hindustan Times* because of his poor living conditions, Arshad is the first slum-dweller to do well in the tests, which can ensure him an education and give him a fighting chance to get out of the cycle of poverty.

There are tens of thousands, however, who don't seem able to get on that road. Sita Parwar, 20, was born on Bombay's pavements, was married on the pavement and most likely her children will be born on the pavement.

Her slice of pavement was providing space for people more than 20 years ago — when only a few residents lived on the streets — and over time the shacks have taken on a degree of substance.

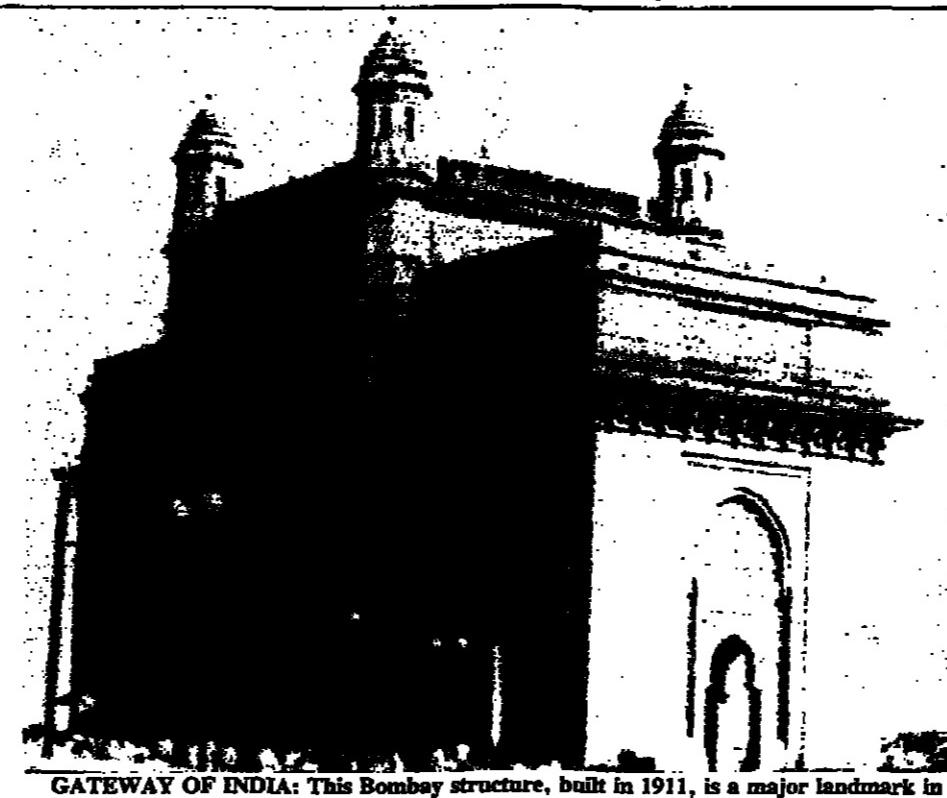
Their sides are wood or corrugated tin, not the burlap sacking of the more recent hovels put up only a mile down the street, and sheets of plastic cover the roofs.

There were even two water taps, so the pavement-dwellers can draw water and bathe near where they live, even if it is on a public street. But the nearest bathroom facility, a public latrine, is about a 15-minute walk away.

Parwar, whose husband is a garbage collector, wants to leave. "How long can I live here?" she asked. "After all, this is a road."

Last year, during one of the worst downpours of the monsoon, city officials tried to clear out blocks of pavement-dwellers, knocking out their hovels and loading them on trucks and buses to return them to their home village.

But the brutal manner in which the demolitions were carried out caused a violent backlash. Civil liberties groups went to the courts, which ruled that the pavement-dwellers can stay as long as they do not block walkways and roads.



GATEWAY OF INDIA: This Bombay structure, built in 1911, is a major landmark in India's richest city.

## Non-nuclear defense to beat the Soviet Union

By Andrew Wilson

weight of conventional warheads.

At a large remove from this study by NATO planners, "alternative defense" is a current subject for study in British universities and research institutes. The aim is to find ways of stopping the drift of NATO into nuclear "war-fighting" plans, that is to say plans to use new tactical weapons, like the neutron bomb, to stop Soviet armored divisions, in a belief that the subsequent missile exchange could be controlled and "won".

The coordinating body for most of this research is the so-called Alternative Defense Commission, a 20-strong group of defense and political experts, working in association with the School of Peace Studies at Bradford University.

The commission is preparing a report on its findings for publication later this year. Interim papers have dealt with ideas for improving the cost-effectiveness of conventional forces, such as the mobilization of armies, shifting naval development into fast patrol craft, and enhancing air defense capabilities at the expense of strike aircraft.

More radical alternatives being studied by the commission include territorial defense (i.e. by a citizens' militia) on the Swedish and Swiss models, defensive guerrilla warfare and defense by civil resistance.

Predictably most military men are dismissive of these alternative strategies.

A former British government chief scientist, Sir Solly Zuckerman, and a former chief of defense staff, Field Marshal Michael Carver, have both come out roundly against Britain's acquisition of the Trident missile (arguing instead for a "minimum" deterrent based on the existing Polaris).

## 'The A-bomb kid' contesting American Congress election

PRINCETON, New Jersey, (R) — Five years ago, to prove the dangers of nuclear arms proliferation, John Aristote Phillips designed an atom bomb while an undergraduate at Princeton University.

Today, the 27-year-old Princeton graduate is running for Congress on the same issue that prompted the design. "The nuclear freeze is a big issue in this campaign. People want to start reducing the level of nuclear weapons," Phillips said in a recent interview.

He is running as a Democrat in Connecticut's fourth district, a republican stronghold.

Nicknamed "The A-bomb Kid" by the press, he designed the crude atomic device in a 34-page paper which he submitted to the Princeton physics department in the spring of 1977.

At the time Phillips, an aerospace engineering student, said that he wanted to prove that anyone using public information could build and possibly detonate a fission

device.

He urged Congress to tighten U.S. controls on plutonium, a necessary component of an atomic bomb. Now he says he is dissatisfied with present controls and is convinced that within the next decade a terrorist group will be able to build a bomb.

"People are waking up to the real danger that we're careering toward a time when terrorists can and will make atomic bombs. The world situation has gotten worse and is deteriorating," G. Phillips said.

The young Democrat faces a tough battle to upset six-term incumbent Republican Stewart McKinney in Connecticut's staunchly Republican fairfield county. This is his second try at public office. He tried but failed to unseat McKinney in 1980.

Phillips said he had little interest in politics before the publicity that followed his original design. He said he now realized he could easily convey technical issues to the public and wanted a chance to do so.



JUMPING BACKWARDS: It is a great achievement to train a whale to jump. But this 3,600-kilogram whale at the Sea World in San Diego, California, has been taught even to jump backwards.

## Antillean Islands in troubled waters

By Tom Kuntz

PHILIPSBURG, St. Maarten (HC) — There is an old saying in the Netherlands Antilles, that all troubles eventually are carried away by the tradewinds. That is no longer the case.

Indeed, the Netherlands Antilles, which many Americans know only as a group of idyllic Dutch Caribbean vacation isles, are facing a political crisis that could disrupt the U.S. oil lifeline, affect billions of dollars in business done by U.S. banking subsidiaries and contribute to further instability in a volatile part of the world.

"Rarely has the country been faced with such a barrage of fundamental problems," the Curacao-based *Antillen Review* editorialized recently. "The country is indeed in troubled waters."

The crisis centers on Aruba, an island of about 70,000 inhabitants off the coast of Venezuela that is expected to gain autonomy soon from the Antilles and is moving toward independence from the Netherlands.

Some knowledgeable observers are worried that leftists may gain dominance in Aruba under the leadership of the island's most popular politician, Betico Croes. Officials in Washington and the Antilles are even discussing the possibility that Venezuela might seize Aruba, to which it ships much of its crude oil for refining.

The Aruban issue has so polarized the Antilles government in Willemstad, Curacao, has virtually ceased to function since January, when it fell because of defections in Prime Minister Domenico F. Martina's ruling coalition. The crisis was spurred largely by disagreements over the future of the Antilles in general and Aruba's movement toward independence in particular.

Elections June 25 did little to alter the balance of power in the 22-seat States, or parliament, and the governmental impasse continues.

Aruba is oil-rich, site of a huge Exxon-run oil-refining complex and oil-transshipment facility. And it may become richer, a lot richer, if, as seems likely oil is found offshore.

"Everything points to the fact that Aruba may have oil," says Paul G.M. Loewenthal, economic commissioner of the Antilles. "That's one of the main reasons Aruba wants independence from the Antilles. It doesn't want to share that wealth."

In addition, Arubans charge that their affairs, and their tax dollars, are being mishandled by the government in Willemstad, Aruba has an unemployment rate of only 4 percent, while the rate on Curacao, the chain's most populous island, is 15 percent.

The other five Antillean Islands, which are not as anxious to become independent, are worried about how an Aruban breakaway would affect their political and economic futures.

The other islands are Bonaire and Curacao — which with Aruba are known as the "ABC" islands off the coast of Venezuela — and the three Dutch windward islands: St. Maarten (the Dutch part of a part-Dutch, part-French island), St. Eustatius and Saba, all about 100 miles east of Puerto Rico.

For Years, Arubans have been agitating for independence from the Antilles, the last overseas territory in what once was the sprawling kingdom of the Netherlands. Then late last year, Holland, which wants to decolonize all of its Antillean Islands, reached provisional agreement with the Antilles on a separate independence for Aruba.

Later this year, a Dutch-appointed panel of three Dutch and four Antillean representatives — dubbed the committee of seven — is expected to agree on Aruban separation from the Antilles — or "status aparte" — within the next two years. Independence from the Netherlands would come gradually over the next 10 years.

Autonomy would come to the chagrin of the Reagan administration, which sees any political fragmentation in the Caribbean as increasing the possibility of leftist subversion and shifting to the United States more responsibility for the region's welfare.

The decolonization stakes are higher for the Antilles than for other Caribbean territories because as much as 10 percent of the oil imported by the United States passes through the islands. The total includes both Gulf oil.

## Vitriolic debate on art under way in Peking press

By Victoria Graham

PEKING (AP) — An extraordinary, vitriolic debate on art and literature — always a volatile subject in Communist China — is under way in the Chinese press in a rare display of political and cultural mudslinging.

It comes at a time of increased restrictions on literary freedom and warnings to artists and writers to endorse the Party and socialism and extinguish bourgeois liberalism.

At the same time China has declared that the late Chairman Mao Tse-tung was wrong in his attitude toward intellectuals and wrong in saying that art must serve politics. Now, it says, art must serve the people.

"How?" is the subject of unending debate here. "It's like walking on eggshells," said one intellectual. "The situation is vastly improved, but the relative freedom expands and contracts and we still have a long way to go."

On one level, the debate is being waged by monthly magazines and their supporters: the *Literati* or the literary gazette, and the hard-liners and leftists with army connections of the report of *The Times*. The latter became famous last year for its rapacious attack on the army writer Bai Hua who criticized Maoism and the Communist Party.

Such debates always are messy in China, foreign diplomatic observers note, recalling last year's tempest over the writer Bai Hua which finally was called off by party chairman Hu Yaobang.

So far, they say, the party probably has

which on Aruba and Curacao is transshipped from huge tankers to smaller ones that can dock in U.S. ports, and the mostly Venezuelan oil from those islands' refineries.

"We would rather see the six of them remain together and we would rather see the islands remain under the wing of the Netherlands," said Mary Kosheleff of the Department of Caribbean Affairs.

Georges Faure, a Caribbean expert at the Washington-based Center for Strategic and International Studies, says that Croes — the leader of Aruba's independence party, MEP, and the island's most powerful politician — "appears to be leading Aruba, not only down the road to independence, but also down the road to a left-wing regime with strong ties to Grenada and Fidel Castro's Cuba." Grenada, which gained independence from Britain in 1979, has had Marxist leadership since 1979.

However, Laurence R. Birns, director of the Council on Hemispheric Affairs, another Washington think tank, discounts the possibility of radical change.

"The islands themselves are so commercially oriented — most of their wealth is from oil and banking — that there's no possibility there's going to be a Grenada-type explosion there or a radicalization of politics," he said.</p

*Caused by tension in brain system*

## Narcolepsy controlled but not cured by drugs

By Kim Miller

NEW YORK (AP) — Each day of her life, Miss Ryan consumes 45 milligrams of speed — dextroamphetamine — prescribed by her physician, just to stay awake enough to function. Miss Harden has narcolepsy and without this drug, she is liable to nod off at nearly any moment.

"I fell asleep once when I went into the bathroom to let a drain of water, fell and woke up with a concussion," Miss Ryan said in a recent interview. "I have been known to sleep 22 hours at a stretch. I even fell asleep once over a stove."

Narcolepsy is a neurological disorder which has no known cure. Its principal symptom is excessive sleepiness. The only medically sanctioned treatment is analeptic drugs — colloquially, ups — such as dextroamphetamine and pemoline.

The other primary symptom of the disorder is cataplexy — a sudden loss of muscle tone brought on by intense emotion. "About nine years ago, I started having these attacks," said Mari Kaestle, 36-year-old toy designer. "I would feel this sense when I heard something funny. But it got to the point where my husband and I would go out to dinner and I'd just spend the whole meal sliding out of my chair or with my rice in the plate."

"Having narcolepsy is like always being as sleepy as a normal person might be after staying awake three days," said Bill Baird, a narcoleptic and president of the American

Narcolepsy Association (ANA) in Stanford, California.

Although the cause of narcolepsy is a mystery, researchers believe it had to do with a chemical imbalance in the part of the brain that controls wakefulness. Researchers believe there is a genetic cause to narcolepsy and have found multiple instances of the illness within families.

"The best hypothesis is that narcolepsy is caused by a tension in the brain system," according to Dr. Merrill Mitler, chief of the sleep disorders program at the State University of New York at Stony Brook. "It doesn't appear to be anatomical. Out there are obvious abnormalities in the brain chemistry."

Typically, narcolepsy first shows up between the ages of 10 and 30. Correct diagnosis, however, takes most narcoleptics an average of 10 to 15 years after consulting three to five physicians, according to the ANA.

"In a physical exam, you don't find anything wrong with a person who has narcolepsy," Baird said. "You must run special tests," said Mitler. "After the initial symptoms, over the next five to seven years the individual may get worse and more symptoms may appear." Mitler said. "But then there's a period of stabilization that lasts the remainder of the individual's life. There is some scant evidence that women after menopause get somewhat better, and some scant evidence that males after 50 or 60 get better. But it's possible that

they simply become more experienced at dealing with their symptoms."

There are various narcolepsy associations in the United Kingdom, Japan, Germany and Canada, as well as the United States. Most narcoleptics control their illness by taking drugs, but the effects are sometimes unpredictable.

"I started mutilating my face, and I think that was very drug-related," said Miss Kaestle, whose cheeks bear pock-like scars. She said she also suffered severe depression and dizziness, all of which she blamed on drugs. And the drug she was taking to stay awake was having the opposite effect. Miss Kaestle stopped the drugs altogether in 1979.

"I had withdrawal symptoms that were fairly severe for several months after, but I basically knew that's what they were," she said. "But I felt like just kicking my heels up in the air. After I stopped taking those drugs, I could walk, I could talk, I was almost human."

Miss Ryan, in contrast, takes the analeptic pemoline and suffers no apparent side effects. "I've been in this particular drug for five years and so far, I haven't had to do any switching of drugs," she said.

"Side effects can be a problem," Mitler admitted. "We try to match the medication to the individual's needs. Switching medications when side effects develop is essential. And drugs will lose effectiveness, the individual will become tolerant and have to go through

periods of discontinuation."

Mitler, a professor of psychiatry, is particularly concerned with improving diagnostic techniques for narcolepsy. He said the key indicator is the multiple sleep latency test, in which a subject sleeps at two-hour intervals during the day as his brainwaves are monitored by an electro encephalograph.

There is one more important symptom Mitler looks for on this test: rapid eye movement, or REM sleep, a period of light sleep in which people dream, their eyes darting back and forth.

Normal sleep follows a distinct pattern. First is a period of relaxation called the alpha state. Next is Stage 1, a light sleep which lasts a few minutes. Then the normal sleeper enters Stage 2, which is a little deeper. His eyes will seem to roll beneath their lids. This is followed by delta sleep, the most oblivious state. Finally, about an hour or so after falling asleep, the subject reaches REM, which is again light sleep. The narcoleptic frequently goes right into REM sleep.

Miss Ryan, who was a chemist and once entertained the idea of being a doctor, became a potter so she could work at home, away from the pressures of fighting to stay awake in a lab. She said she hasn't suffered greatly from being a narcoleptic. Now in her 50s, she developed narcolepsy when she was 19. She was not correctly diagnosed until 5½ years ago.

"I've been able to live a relatively normal life as long as I didn't expect too much from it," Miss Ryan said. "I'm disappointed that I wasn't able to do all the things I planned. But I'm adaptable and I did some other things and did them quite well without really understanding narcolepsy."

Miss Harden, 38, who was diagnosed at 14, said the illness has not been a great hardship. "I get depressed about three times a year, and it's solely because of the fact that you've got to live on pills," she said.

By Peter J.  
Steinrohn  
M.D., F.A.C.P.

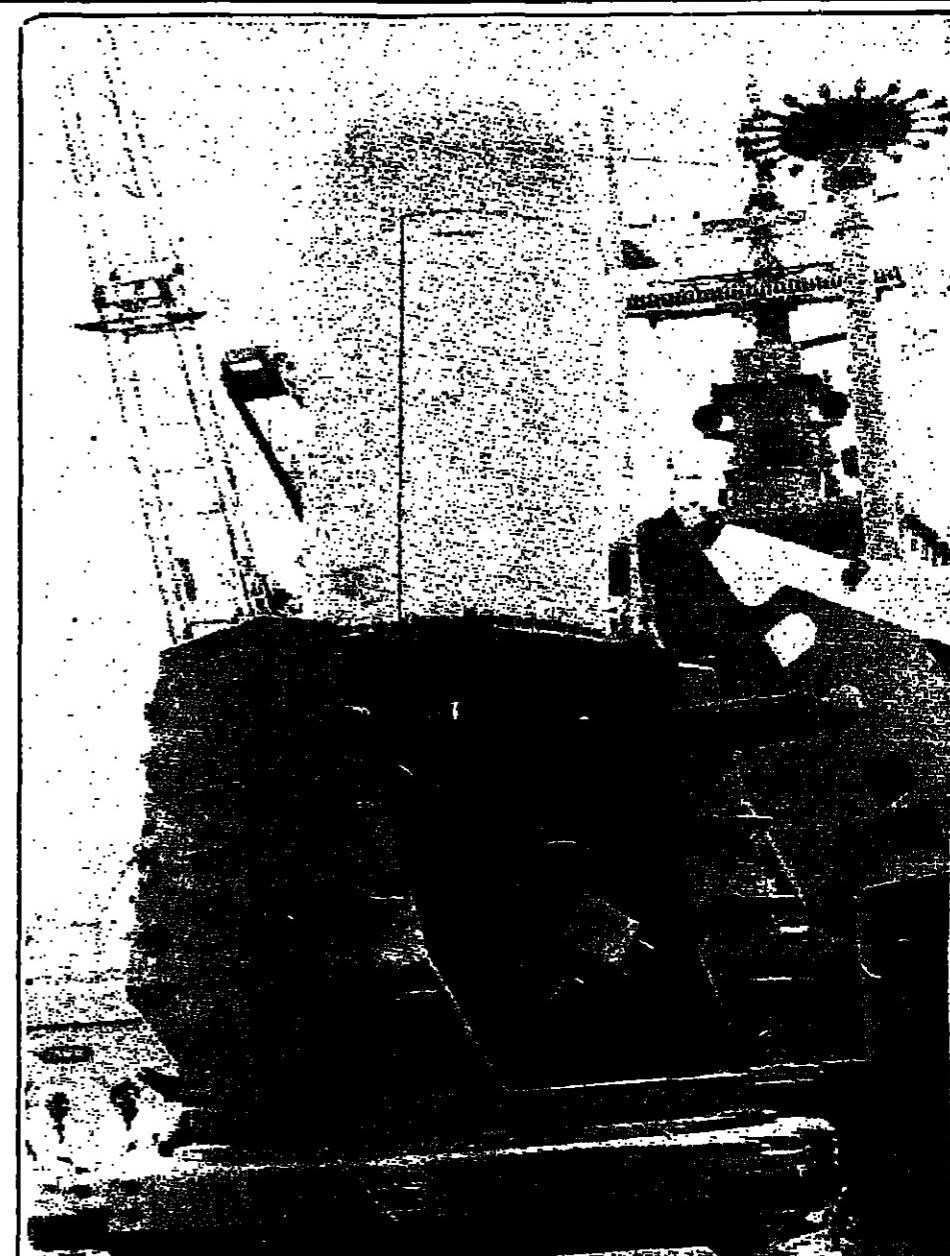
factors that cause depression more often in women. They may be hormonal, psychosocial or genetic. It's well known that following menopause there's greater risk of becoming depressed. It may be due to imbalance of production in estrogen and progesterone. This has a profound effect on the metabolism of the nervous system.

Even during the younger ages, think of the tremendous demand on woman's time. She may be family secretary and chauffeur. She's the manager of household budget. Who takes care of the husband and children when they are ill? Suppose she works at home and outside? Think of the financial and social adjustments after divorce. Fortunately, we now have pills that help lessen the load of depression that patients carry as a heavy burden.

Dear Dr. Steinrohn: I don't want to become too introspective about my cholesterol levels, but I think maybe I should. What I'm asking is this: does family history play an important part? I'm only 19. — Mrs. T.

Dear Mr. T.: A bad heredity should make us more aware of the "silent" attackers. It gives us time to set up defenses. For example, Carlos A. Duojone, M.D., professor of medicine at the University of Kansas School of Medicine says, "Individuals whose mother or father has had heart disease before age 55 should be tested even earlier in life, preferably as children." So you see, you will not be abnormally introspective by asking a doctor to check on your cholesterol even though you are only 19.

(Tomorrow: Heart attack — how long in hospital?)



'ROBOT' GUN: This advanced radar-controlled gun has been nicknamed the "Robot". The gun is part of a sophisticated American Volcan Phalanx close-range weapons system onboard the British anti-submarine carrier, HMS Illustrious.

## Nicotine may have hidden therapeutic effect

By Anthony Tucker

JOURNAL points in the right direction then, at least for some people, the answer could be yes and fairly soon. Doctors Roberts and Dingle, of Newbury, England, having identified a patient whose ulcerative colitis is charmed away within a matter of days by taking up smoking, have taken the experiment a step further.

What in the smoke, they asked, could have such an effect remote from the site of absorption in tarred up lungs? One obvious answer was nicotine, carried by the bloodstream preferentially to the site of inflammation. So, when their patient relapsed through once again abandoning smoking, they tried a single, non-blind, non-randomized and hence wholly unscientific

test. Nicotine, absorbed from chewing gum, was substituted for remedial fags.

The result was a triumph of therapeutic control. At a chewing gum delivered dose of 20 milligrams of nicotine a day the ulcerative colitis remained in remission. At half this nicotine dose there was an explosive relapse. But the relapse was controlled within 48 hours by a return to 20 milligrams of nicotine a day.

Single cases, of course, do not make good medicine and chewing gum may seem almost as offensive as smoking to the fastidious. But it seems that nicotine may have a value hitherto undreamed of, but beware, for it is also highly toxic. Self-medication might turn out to be the ultimate cure.



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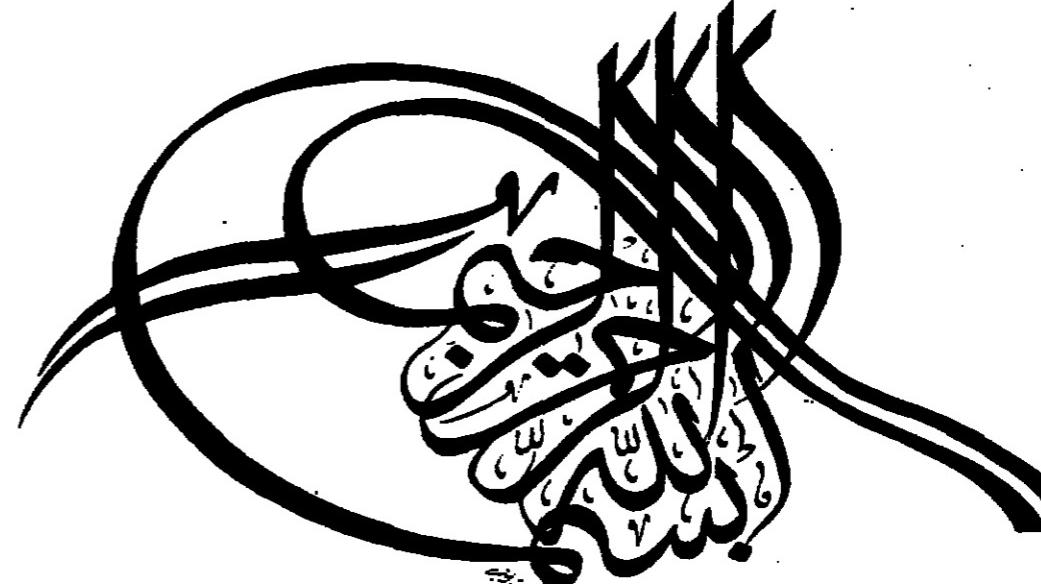
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*Backed by trade unions*

## Swedes propose wage earner funds to give a boost to flagging economy

By Helen Womack

STOCKHOLM (R) — Swedes are drifting back from summer holidays to a fierce pre-election debate about a plan to make workers and employers save and invest money.

The many opponents of the radical scheme, advocated by former Prime Minister Olof Palme's Social Democrats, say it could tilt power heavily in favor of the trade unions.

The Social Democrats say the plan is vital to give the flagging Swedish economy a boost but economists calculate it would alter the ownership pattern of Swedish business. "It's communism pure and simple," said one owner of a small business.

The proposal to establish "wage earner funds" around the country is rapidly turning Sweden's Sept. 19 parliamentary and municipal poll into a one-issue election — and one of the most dramatic for many years.

But for the plan, which most Swedes reject, the Social Democrats would be clear favorites to win and regain the power they lost in 1976 after 44 years of uninterrupted office. The idea, backed by the trade unions, is for a percentage of firms' profits and workers' wages to be put in collective funds to buy shares in companies quoted on the stock exchange.

Economists say the funds could generate three to four billion crowns (\$540 to \$710 million) in annual investment of capital and own 15 percent of business enterprises within five years. Such a means of boosting investment and widening worker participation is not new as a political idea but no country has ever

actually adopted it.

The Centrist (agrarian) and Liberal parties, now ruling in a shaky minority government, the opposition Conservatives and employer organizations all oppose the plan. "It would mean the transformation of the Swedish social system, since privately owned business enterprises would be taken over," said the Federation of Swedish Industries.

According to opinion polls, most Swedes agree. One sample showed 53 percent of voters were against the funds, 16 percent were in favor and 31 percent undecided. Paradoxically, the latest poll of party support gave the Social Democrats under Palme 46 percent of the vote, three percent more than they won at the last elections in 1979.

The Conservatives also had a good showing with 27 percent, seven more than in 1979, but the Liberals with seven percent and Centrists with 11 were losing support, the poll showed.

Social Democrats in the trade unions and the traditionally radical far north of Sweden are the strongest supporters of the funds.

They say the plan is essential to make industry democratic, secure investment and thereby protect employment and social security.

The national unemployment rate is only three percent but the rate rises to 15 percent in pockets in the north.

The Paris-based Organization for Economic Cooperation and Development (OECD) called for more investment in a recent report on Sweden, which pointed to some economic improvements but an underlying lack of industrial competitiveness.

Other Social Democrats are beginning to

fear the funds scheme could cost them much support if not the election itself. Palme personally opposes the plan to which he is bound by a party Congress decision, while eminent Swedish economist and life-long Social Democrat professor Assar Lindbeck has just quit the party in protest at the proposal.

The proposal has raised constitutional questions and commentators say implementation could be delayed for years. It is also highly technical and ordinary Swedes now show signs of bafflement and boredom with endless media coverage of the plan. "We've got to find some other, simpler issues before Sept. 19 or many Swedes will just not come out to vote," said a Social Democratic Party worker.

The Conservatives, a growing force in Swedish politics under their new leader Ulf Adelsohn, have a different prescription for a leaner, healthier economy — tax and public spending cuts. But they are unlikely to win enough support to take office alone and would face hard negotiations to form any coalition with the other non-Socialists.

In 1981, they left a coalition with Liberals and Centrists because they wanted more sweeping tax cuts than their partners. Swedish politics has been paralyzed ever since, with the minority government depending on Conservative support in every parliamentary vote for a majority of one over the Social Democrats and Communists in the 349-seat chamber.

Opinion polls suggest that the two governing parties could be almost annihilated at the polls.

Other Social Democrats are beginning to

## Pearls cultured in Taipei black clams

By Thomas Chen

TAIPEI — A wealthy mother in Taiwan, aware of its traditional curative values, pays \$125 for a tael (3.75 grams) of powdered pearl at a Chinese medicine store. A young girl uses her savings to buy the same exotic stuff because she believes that powdered pearl is a superior cosmetic.

In a seemingly unrelated situation, fish pond farmers in northern Taiwan have been plagued by the growing population of black fresh-water clams, called *Anodonta Woodiana*. These everpresent field mollusks deprive the fish fry of the plankton the baby fish feed upon, and even wound the fish with their sharp shells.

Now pearls are being cultured in these harmful clams — like a daydream come true. The credit goes to a pearl dealer, an enterprising farmer, a country girl and the government Chupei Fish Culture Station.

Several years ago, when a Taiwan pearl dealer was purchasing pearls in Japan he learned the secrets of pearl culture. After his return, he organized with his brother farmer Fan Kuo-ping, an experiment on "seeding pearls" in native clams. Fan employed a high school girl, Yeh Su-tuan, as a part-time assistant.

The girl was taught to cut the flesh of a clam into small bits and then transplant the bits into the bodies of healthy clams. She did not really believe in what she was doing until, two years later, she saw that pearls actually had grown in the seeded clams.

Galvanized by the sight and, hardly believing her eyes, she felt the dozens of pearls with her fingers. The pearls she had created were irregularly shaped and were not iridescent. Nevertheless, they filled her with a feeling of accomplishment and stimulated the desire to improve upon what she had wrought.

She had carefully documented the physical conditions of the clams before and after the transplants. Gradually, she came to understand the relationship of these physical conditions, transplanting techniques, and the quality and temperature of the water to the quality of the pearls.

Now this country girl has become the most skillful pearl culturist in Taiwan. The first batch of pearls she cultured was sold in Japan at attractive prices. Her present problem: how to increase production to meet the vast demand.

Wearing a necklace made of pearls cultured by her own hands, Yeh, in the sultry summer days, works with her clams from dawn to dusk. During the cold days of winters past, she went to the ponds and paddyfields to collect healthy clams. Often, still, she says, her eyes smart from working too long at the meticulous transplantation. Now — her accomplishment recognized — she has been employed by the Chupei Fish Culture Station as a teacher as well as a technician.

Groups of enterprising farmers come to the station to watch her and learn the operation. She patiently begins: "Pearl culture is the art of transplanting the cells from one clam to the outer mantle (epithelium) of another." There is a strip of cells in every clam that secretes an iridescent matter which, under proper conditions can form into a pearl.

The necessary first steps are to collect good clams, open them carefully and strip the cellular glands. The glands are cut into small pieces for transplanting into the outer mantle of other clams.

The host clam is opened a little with a wedge. Then, Yeh uses a pair of small scissors to cut 15 tiny slits into either side of the outer mantle, sticking to the shell. She inserts into each of the slits, a small piece of gland and then removes the wedge.

"It is a simple job, but calls for painstaking care. If you cut the epithelium through, the pearls will grow as part of the shell and will be impossible to remove," she said.

The process took her only one minute, and on completion, she immediately moved the clams to a pond. The seeded clams are kept in framed nets, which hang on strings about 30 centimeters under the water's surface. She continued:

"These framed nets are our intensive care wards," said Yeh. "It takes three to four months for the clams to recover from the surgery. Actually they will spend their entire lives in the nets."



TREASURE TROVE: An opened mollusk reveals opalescent treasures.

Miss Yeh no longer needs to collect clams from the ponds and paddyfields. They are cultivated in great numbers in ponds outside her office. She carries out a mass "prenatal examination" on the clams every half month to remove the dead and moribund. She has now trained more than ten pearl culturists, some of whom have already begun to make money with the new technique.

Ambitious entrepreneurial pearl culturists have tried to hire Yeh, making tantalizing offers. Some have offered to back her in establishing her own business. She chose to remain at the Chupei Fish Culture Station because of her excitement about the possibility — through the use of station facilities — of making technical breakthroughs in pearl quality and production.

There are problems in Taiwan's pearl culture development. First, the industry is in its infancy and there is no organization to serve as a prime mover. Considering that, after a clam is seeded, it takes at least two years for the pearl to grow, and that techniques are still unsure, substantial investments in time and money would be at risk in a really major venture.

Second, consumers have long accepted the size, shape and color standards prescribed by Japanese suppliers. We have come to believe that good pearls should generally be round and silvery. Most people aren't aware that most of the pearls offered in jewelry stores were polished and decolorized. The color of a cultured pearl is always consistent with the iridescence of the individual clam that produces it. It can also be affected by the depth and chemistry of water and the health of the host clam. While the standard silvery pearl is lovely, a golden one may be even more fascinating and a true black one is rare and can be most valuable.

Production quantity remains a problem. Because only a few farmers have so far engaged in the new business, the production is too limited to attract buyers to Taiwan. The pearls must be processed and sold in Japan.

To overcome the difficulties, the Chupei Fish Culture Station is attempting to play the role of prime mover. According to Liu Chi-



EXOTIC: Powdered pearl is considered exotic cosmetic.

*Help me! Help me!*



HELP!... "I'm hungry and want my food. Will someone feed me...right now?" This seal seems to be saying so at his home in a Florida aquarium.

## Canada uses gerbils to fight drugs

By Robin McKie

MONTREAL (LOS) — Prison drug racks in Canada will soon be tackled by an unusual new force in crime detection — a team of highly trained gerbils.

Selected for their keen sense of smell and trained at a secret government center, these small, mouse-like creatures may revolutionize the fight against the smuggling of drugs into federal penitentiaries.

This bizarre resort to rodent power has been made by the Correctional Services of Canada, which is responsible for the nation's major prisons. The scientists have trained gerbils, which will be kept in cages at prison gates, to sniff out various drugs and then to press alarm buttons if they scent narcotics.

Gerbils, whose drug detection powers are already being tested at Canadian airports, have several possible advantages over tracker dogs, officials believe. They need little space or food; they are relatively quiet (apart from the odd squeaky treadmill in the cage perhaps); and, are loyal to more than one handler.

Now their powers to cope with the rigors of big-time crime are to be tested — though government officers refuse to say which prison will be the first experimental center or which drugs they will be trained to detect.

"Really, we have been caught on the hop by all the media interest in these animals," said a slightly exasperated Dennis Finlay, chief of media relations for the correctional services.

## Falklanders still clearing up mess

PORT STANLEY, Falkland Islands

— The Falkland Islanders of Goose Green are still clearing up the mess of battle that devastated their settlement at the end of May.

Houses are still wrecked, vehicles out of action, livestock scattered, mines still exploding. One man chanced his fire insurance policy because he had nothing left to insure.

But most in the community are likely to remain and rebuild the big sheep farm which provides the jobs, predicts farm manager Eric Goss. "I think it has brought them all closer together and it has cleared the air," he said in an interview.

"There was a lot of uncertainty in the Falklands before the Argentine invasion, but now that they've come and gone, and Britain has us in their eyes and a focus of their attention, a lot of people feel more safe and secure. With that sort of security people will be quite happy to settle down and rebuild their lives."

he said.

The Argentines, who invaded the Falklands April 2, herded the 113 men, women and children of Goose Green into the local recreation hall on May 1. Most were forced to stay there until May 29, when the firing stopped after a day of fierce fighting in the first major land action of the 12-week campaign.

British soldiers of the parachute regiment's 2nd battalion, who liberated Goose Green, helped the islanders start cleaning up.

In Goos Green, one Nepalese Gurkha soldier was killed and two others seriously wounded by a grenade left behind by Argentine forces. It exploded as they worked on filling in an estimated 1,000 foxholes and trenches in the area.

After the Gurkha's death the work was suspended until army engineers finish clearing the explosives from the holes around the settlement, 4 kms south of Darwin and nearly 80 kms west of Port Stanley, the capital.

"It's a job which has to be done before the grass starts growing in October," Goss said. He said that after the fighting, the paratroopers undertook the grisly task of collecting for burial the bodies and pieces of bodies of those killed in the fighting.

Other troops removed containers of napalm, which the Argentines had stored between the houses, and tried to clear away the grenades, mortars, guns and ammunition, "which were literally dropped where the Argentines stopped," Goss related.

Army engineers cleared the mines, aided by Argentine volunteers who laid the mines. The settlement was believed mine-free until 10 days ago, when a vehicle was blasted by an anti-tank mine on the beach. The two soldiers driving it were not seriously hurt but areas that were declared safe are now restricted again.

Explosives are still being found concealed in the wool sheds.

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# Vatican clarifies role in Ambrosiano affair

ROME, Aug. 22 (R) — Cardinal Agostino Casaroli, the Vatican's secretary of state, was quoted as saying letters of patronage from the Vatican Bank to the late president of the collapsed Banco Ambrosiano did not necessarily imply full-scale guarantees.

Cardinal Casaroli, effectively second only to Pope John Paul in the Vatican hierarchy, made the statement in an interview appearing in Monday's edition of the Italian weekly news magazine *L'Espresso*, which the publishers released Saturday.

It was the first time that a Vatican official had commented openly and in detail on the involvement of the Vatican Bank, with the now-liquidated Banco Ambrosiano spa since the Holy See last month ordered three external bankers to carry out a full inquiry.

Cardinal Casaroli also disputed press reports that the controversial letters of patronage covered loans totaling \$1.4 billion. He said it was of fundamental importance to clarify the validity of the letters.

"In the opinion of experts some of those letters, which are part of the normal banking practice, are such that they do not necessarily

## Soviets laud U.S. grain pact

MOSCOW, Aug. 22 (AFP) — Soviet leaders are doubly pleased with the one-year extension of the Soviet-American grain agreement because it eases Soviet supply problems and breaches America's tough trade policy, observers here have said.

However, the Soviet press Saturday failed to report that the Soviet Union Friday informed Washington that it had accepted the extension.

The Communist Party paper *Pravda* carried a long article on American attempts to "counter" the Soviet Union's economic

## Peking to set up N-power station

PEKING, Aug. 22 (R) — Plans to build Communist China's first commercial nuclear power station are at an advanced stage, the *Workers' Daily* said Thursday.

The newspaper said research and design for the project were almost complete and environmental tests had been conducted.

Diplomatic sources said the reactor would be built near Shanghai, using Chinese-produced equipment for the core and other key parts.

But they noted that the 300-megawatt nuclear plant would be small by Western standards, and it would probably take years to start producing electricity.

imply total commitment," Cardinal Casaroli said.

"I believe there are limits to the links which many people think those letters give rise to," he added.

Contesting the press reports that the letters covered credits totaling \$1.4 billion, he said this figure included some options in which the Vatican Bank had no part.

"I repeat, much depends on the tenor of those letters of patronage we mentioned," he said. "One must be good and correct, but not artful."

Ambrosiano was put into forced liquidation by Italy's monetary authorities on Aug. 7 after the most dramatic banking collapse in Italian post-war history.

The liquidators asked a Milan court last Thursday to rule the bank insolvent with debts exceeding assets by more than 500 billion lire (\$360 million), according to court sources.

At the center of Ambrosiano's controversy are more than \$1 billion worth of loans made by its Latin American subsidiaries to 11 Panamanian companies.

development by means of trade sanctions".

But the extension means that the Soviet Union is assured of supplies of between six and eight million tons of grain on the basis of arrangements made in 1976. This will enable the Soviet Union to cope with severe food problems following two bad years in the agricultural sector.

The extension of the existing grain agreement represents a political success for the Kremlin. The Soviet press has strongly attacked the U.S. policy of applying trade sanctions against Eastern bloc countries.

The press has urged Western European countries to disassociate themselves from what it described as a "line of confrontation" between the two powers.

Observers said the extension of the grain agreement provided Moscow with an additional argument against the American embargo on the use of U.S. equipment in construction of the trans-European gas pipeline.

One Soviet analyst told Agence France-Presse Saturday that "U.S. President Ronald Reagan would like to impose on his allies restrictions which he himself does not accept."

This argument is expected to be developed by the press here in coming weeks. Press reports have already commented that the West, in seeking to penalize the Soviet Union, is punishing itself.

## "WE'VE GOT TO STOP WRINGING OUR HANDS"



*With income down 25%*

## Polish economy in total mess

WARSAW, Aug. 22 (AFP) — A 25 percent cut in real incomes. A 22 percent shortfall in output, and an absenteeism rate of up to 25 percent — these are some of the officially recognized problems which continue to undermine the Polish economy.

The figure of 25 percent for the cut in real incomes in the first seven months of the year, compared with the same period last year, was given recently by Prime Minister Zdzislaw Krasinski at a press conference.

It reflects continuing economic recession against a background of suddenly heightened tension. It is two years this month since the founding of the independent Solidarity trade union, suspended since martial law last December.

The minister blamed the recent slump in the standard of living on "a major reduction" in national output.

Large sectors of the population, and particularly the worst off, are having to pull in their belts. It is so difficult for some people to make ends meet that the government has

## Taipei records \$1.5b trade gain

TAIPEI, Aug. 22 (CNA) — The Republic of China's two-way foreign trade in the first seven months of this year totaled \$24 billion, down 5.9 percent from the same period of last year, leaving a surplus of \$1.5 billion.

The Directorate-General of Budget, Accounting and Statistics, which announced customs-clearance figures recently listed exports at \$12.9 billion, up 0.3 percent, and imports at \$11.3 billion, down 12.1 percent.

The total value of exports and imports in July amounted to \$3.7 billion, up 0.3 percent from the same month in 1981. Exports reached \$1.9 billion, down 0.5 percent, the lowest monthly decrease since last April. Imports were valued at \$1.627.7 million, up 1.3 percent, the first monthly increase so far this year.

One major reason for the improved trade performance in July, according to trade analysts, is that local manufacturers have

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## Companies told to honor

## France firm on pipeline deal

PARIS, Aug. 22 (AP) — France intends to require French companies to honor contracts signed with the Soviet Union on equipment supplies for construction of the Soviet gas pipeline to Europe, sources at the prime minister's office have confirmed.

The statement followed the publication in two French newspapers Saturday of a telegram indicating that the French government would "requisition" the services of companies who refuse to fulfill their contracts.

The newspapers *Le Monde* and *Quotidien de Paris* both said the telegram which an official source described as "confidential" but "in line with the determination of the French position" — had been sent by the external affairs ministry to different embassies and companies.

The telegram said the ministry of research and industry had sent a letter on Aug. 10 to four French companies — Alsthom, Creusot-Loire, Dresser-France and Rockwell-Valves — involved in the pipeline project. The letter warned them that the government "expects the contracts concluded with the Soviet Union to be executed" and "reserves the right, if necessary, to make administrative or statutory measures to this

## UAE halts rig operations

DUBAI, Aug. 22 (AP) — Operations at the Bull-run oil rig, 15 miles (24 kilometers) offshore Dubai opposite the Iranian coast, have been suspended pending an investigation into a mysterious fire that erupted Wednesday night.

Officials declined to elaborate Saturday on a brief statement issued about the incident, which said that one Indian worker was killed and eight others injured before the fire was brought under control.

No details could be obtained on the extent of damage or circumstances under which the fire started. All oil installations in Dubai were declared prohibited areas earlier this month.

The rig, owned by Atwood Oceanic of the United States, is in the Fateh offshore field in a concession area operated jointly by the Dubai Petroleum Company and Standard Oil of New Jersey.

Fateh is one of two main offshore regions that account for the bulk of Dubai's crude

production, estimated at 250,000 barrels daily. The Indian embassy refused to give the names of the Indian worker killed and two other Indians, employees of Atwood Oceanic, who were taken to Al-Rashid hospital. It said only the next of kin and relatives would be notified.

Al-Rashid hospital said two British nationals employed by Sperry Sun, another western company involved in Fateh operations, required hospitalization. It declined to give names or talk about their condition.

The rest of the injured suffered only minor burns and were treated on the spot. Two days before the rig fire, a powerful explosion at a desert "Union explosives" warehouse destroyed two depots, injured one person and damaged a nearby security guardhouse.

The cause of the explosion, which broke windows and shook buildings 13 miles (22 kilometers) away, has not been determined.

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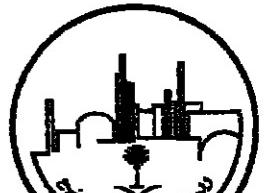
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*In semifinal encounters*

## McEnroe, Connors bite the dust

MASON, Ohio, Aug. 22 (AP) — Ivan Lendl of Czechoslovakia took only 63 minutes Saturday night to crush second-seeded Jimmy Connors 6-1, 6-1 and move into Sunday's final of the \$300,000 ATP Tennis Championships where he will meet Steve Denton.

Denton, seeded 11th in this 64-player hard court tournament, earlier powered his way past top-seeded John McEnroe 7-6, 6-4. Sunday's winner will collect \$48,000 with \$24,000 going to the loser.

Lendl was awesome as he posted his first "official" victory over Connors in eight career meetings. Connors had lost to Lendl in their last meeting, an exhibition last January in Toronto.

The only two times Connors could hold serve he had to battle back from love-40 and 15-40. In the first set, Connors, who won Wimbledon in July for the second time in his career, won just 13 points. Many of those came on unforced errors by Lendl.

In the second set, Connors averted a shutout by saving five match points in the sixth game by holding serve. He had to win nine points to do it, matching the nine points he had captured in the first five games of the set.

Connors didn't help himself as time after time he drove the ball into the net or out of the court for unforced errors. The left-hander also committed the only double-fault of the match.

McEnroe, the world's No. 1 player and the defending champion here in this hard court tournament, played spiritless tennis, serving five double-faults, four in one game — and being dominated by Denton's hard serve.

Denton fired five aces and nine service winners. But the statistics don't tell the story. Time and again, McEnroe got his racket on Denton's booming serve, but either put it into the net or out of the court. And Denton, like McEnroe one of the better doubles players in tennis, dominated the net as the New Yorker never was able to find his game.

Denton broke McEnroe in the sixth game of the opening set, winning three of his points on McEnroe's errors. The New York Left-hander broke Denton right back in the next game with a perfect forehand passing shot, one of the winners he hit in the windy conditions at the Jack Nicklaus sports center.

"Everything I hit was tentative," McEnroe said. "There is nothing about my game that is not tentative right now. I'm just worrying about myself and I have a lot to worry about right now."

"I think he missed a lot of first serves that he usually doesn't and that was attributable to

the wind," Denton said of McEnroe. "I don't throw my ball up as high (on the serve)."

McEnroe, who was troubled for the second straight day by a bleeding blister on the bottom of his right foot, also was troubled by his shot selection. Asked about one particular shot, he said: "That was a stupid shot. It's not one to try in a tiebreaker if he wants to beat Lendl in the finals of the \$75,000 championship."

Currently ranked 103rd in the world, the determined lefty is playing more intensely and more aggressively than he has in years. Lapidus earlier disposed of second-seeded Tim Mayotte, Brad Gilbert and Australian John Alexander, all in straight sets. Fromm has also beaten Chris Dink, and South Africans Eddie Edwards and Fred Sauer.

Laver, seeded second in the event for for-



McEnroe...a spiritless display

mer tennis standouts now 35 years of age and older, topped unseeded Mark Cox of Great Britain 6-1, 6-3. The unseeded Stolle upset top-seeded Ken Rosewall of Australia 3-6, 6-1, 6-4.

Meanwhile, Jay Lapidus, a hard-hitting 23-year-old, on Saturday won the right to battle seventh-seeded Eric Fromm in Sunday's final match of the Stowe Grand Prix Tournament. This will be the first Grand Prix final match for both players. Fromm, a 24-year-old defeated Terry Moor, 6-2, 3-6, 6-2. Lapidus downed Tom Gullickson 6-4, 7-6.

Tennis fans watched the semifinals matches huddled in blankets to keep warm while a bitter wind forced players to place their shots carefully. Fromm is suffering from tendonitis, but still found his blistering forehand to be his most consistent weapon against Moor. Moor fought back after a slow start in the first set to

win the second set, but couldn't keep up the momentum in the final set.

Fromm, who has fought his way up rapidly to No. 74 in the amateur rankings, attributes his performance to "A lot of hard work."

"I'm playing much more consistently than I've ever played before," the New Yorker said. "And he'll have to play well Sunday if he wants to beat Lendl in the finals of the \$75,000 championship."

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## As Simmonds stretches Jaeger Martina breezes past Hana

MONTREAL, Canada, Aug. 22 (AP) — Martina Navratilova, showing why she is ranked No. 1 in the world, beat Hana Mandlikova of Czechoslovakia 6-2, 7-5 Saturday to advance to the final of the \$200,000 Player's Challenge Tennis Tournament.

Navratilova meets third-seeded Andrea Jaeger, who beat Italy's Sabina Simmonds 6-2, 1-6, 6-1 in the other semifinal.

Navratilova, who has won 63 of 64 matches this year, took advantage of unforced errors by Mandlikova to breeze through the first set. Mandlikova blasted several forehand winners past Navratilova during the opening set, but was unable to hold service and netted several easy returns.

Mandlikova rushed the net effectively in the second set, but her service again let her down. Trailing 4-2, she put away a backhand volley to break Navratilova's service and win the seventh game at love.

But Navratilova broke back to go up 5-3. Mandlikova broke Navratilova again and held her own service to tie the set 5-5, but unforced errors cost her the final two games of the match.

Navratilova has a 7-4 lifetime record against Jaeger's including three straight victories this year. "She's the one who had better do something different," said Navratilova, when asked what strategy she would have to employ to beat Jaeger. "The last three times I've played her I've won in three sets."

Jaeger, ranked fourth in the world by the women's tennis association, overcame a shaky second set to win 6-2, 1-6, 6-1 on a chilly, windy afternoon at Jarry Stadium.



Connors...proves poor match

### As Simmonds stretches Jaeger

## Martina breezes past Hana

Playing her characteristically steady, baseline game, Jaeger won the first set with relative ease against an erratic Simmonds but became erratic herself in the second. "I just let my concentration go a little bit," said Jaeger. "She had nothing to loss, so she started hitting for winners, and I just started going for them, too."

Simmonds, 22, who repeatedly belted returns long, wide and into the net in the first set, said her reversal in form was a simple case of eliminating mistakes.

"I didn't make too many errors in the second set and I started going for the lines more," said Simmonds. "I felt I had to move her around more or she would do it to me."

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# Nolan Ryan pitches towards fame as Astros slip ahead

NEW YORK, Aug. 22 (AP) — Nolan Ryan pitched a five-hitter and neared second place on the all-time strikeout list while leading the Houston Astros to a 5-3 decision over the Montreal Expos Saturday.

Ryan, 33-9, flirted with a Major-League record sixth career no-hitter, but that ended with two out in the fifth when Chris Speier and Doug Flynn hit back-to-back singles that scored Tim Wallach, who had walked, with the Expos' first run.

The 35-year-old righthander struck out five, giving him 3,433 career strikeouts. Walter Johnson leads the all-time list with 3,508, while the Seattle Mariners' Gaylord Perry is one strikeout ahead of Ryan at 3,434.

Ray Knight's sacrifice fly in the first off loser Ray Burris 4-13, gave Houston a 1-0. In the third, Art Howe's RBI forceout provided Houston with a 2-0 edge. Cruz gave Ryan additional breathing room in the sixth inning with his eighth homer of the year, a two-run shot. The Astros scored their last run in the eighth on Howe's sacrifice fly.

Ryan, who walked three batters, worked out of a jam in the ninth when the Expos scored two times in an RBI single by Gary

Carter and run-scoring bouncer by Tim Wal-lach.

In other afternoon National League action, Tim Lollar and Luis DeLeon combined on a two-hitter and Gene Richards and Tony Gwynn each drove in a run in the sixth inning, leading the San Diego Padres to a 2-0 victory over the Chicago Cubs.

In the American League, Gary Ward knocked in two runs and Al Williams and two relievers combined to scatter nine hits to lead the Minnesota Twins to a 4-3 victory over the Cleveland Indians.

Dan Meyer hit a three-run homer in the fifth inning, and Tony Armas followed with his third career-Grand Slam an inning later as the Oakland A's stunned the Boston Red Sox with a 12-5 come-from-behind victory. Oakland's Rickey Henderson, who stole three bases in the game and was thrown out once, now has 114 steals in his attempt at breaking Lou Brock's Major-League record of 118.

In National League night action, Mike Easler slammed his 11th home run of the season with two out in the eighth inning to give the Pittsburgh Pirates a 2-1 victory over the Los Angeles Dodgers. Paul Hostetter and Ron Oester drove two runs apiece and Bob Shirley scattered seven hits as the Cincinnati Reds overwhelmed the Philadelphia Phillies 10-3.

Chris Chambliss crashed a three-run homer, and Jerry Roy Jr. singled home the go-ahead run in the sixth inning as the Atlanta Braves trounced the New York Mets 6-5. First baseman Jeff Leonard's three errors in two innings led to four unearned runs and Lonnie Smith rapped an inside-the-park homer, helping the St. Louis Cardinals beat the San Francisco Giants 7-6.

Jim Clancy and Dale Murray combined on a three-hitter and Jesse Barfield's RBI double paced a three-run first inning, leading the Toronto Blue Jays to a 3-1 victory over the New York Yankees. Willie Aikens slammed a two-out homer in the bottom of the ninth inning to lead the Kansas City Royals to a 4-3 victory over the Chicago White Sox. Harold Baines drilled in a pair of solo homers for the White Sox.

Ken Singleton's run-scoring single capped a three-run eighth-inning rally that carried the Baltimore Orioles to an 8-6 victory over the Texas Rangers. Doug Decinces drove in four runs and Bob Boone knocked in three with a pair of homers as the California Angels hammered the Detroit Tigers 13-1. Doc Medich and Rollie Fingers combined on a six-hitter to carry the Milwaukee Brewers to a 3-2 victory over the Seatties.

## NFL players get set for rainy day

By Susan Sapirto  
Houston Bureau

HOUSTON, Aug. 22 — Representatives of Ted Turner's video empire recently said Turner's Atlanta Superstation will nationally televise games played by a renegade league of National Football League (NFL) players should the players strike.

Turner said the proposed league would field six, 45-player squads that would travel across the United States playing games in as many as 18 cities on Sunday and Monday nights. A championship game would be played in the Aloha Bowl in Honolulu, Hawaii on Dec. 19.

Turner aides would not disclose what facilities would be used or mention the cities that would host the games.

According to the aides, all players would earn between \$4,000 and \$5,000 (SR13,600 and SR17,000) per game.

Ed Garvey, executive director of the NFL Players' Association, said the agreement was made to provide "insurance" for the players in the event of a strike, lockout or NFL shutdown.

## Malaysia holds Pakistan to make the grade

KUALA LUMPUR, Aug. 22 (AP) — Hosts Malaysia nearly sprang the biggest surprise in the second Junior World Cup (field) Hockey Tournament here Sunday. But they were held by defending champions and favorites Pakistan to a 2-2 draw, and this gave them the last semifinal spot.

Malaysia's semifinal hopes hung in the balance until this match as they were tied on points with Spain and the Netherlands, the other two contenders for the second spot in Group "A".

At best Malaysia were hoping to lose by a narrow margin, which would have given them the berth on a better goal difference than Spain and the Netherlands. A draw and one point was the most unexpected, and more than enough for the underdogs.

In another Group "A" match the Netherlands defeated New Zealand 3-2 in the remaining seven minutes of play this morning. The game was resumed Sunday after bad light stopped the match Saturday. The Dutch were leading 3-2 when play was halted. New Zealand, the Australia zone win-

## Strikers edge out Tea Men

JACKSONVILLE, Florida Aug. 22 (AP) — Bernd Holzenbein of West Germany scored the winning goal with an assist from Branko Segota of Canada to lead the Fort Lauderdale Strikers to a 2-1 North American Soccer League victory over the Jacksonville Tea Men Saturday night.

The loss eliminates Jacksonville from the playoffs. Segota scored his 12th goal of the year at 59:04, taking a pass from Ray Hudson of England and beating goalkeeper Arnie Simonini from point-blank range.

Ricardo Alonso of Argentina tied the score at 1-1 on an assist from Colin Brazier of England and Keith Bertchin. It was his 21st goal of the season.

Jacksonville ends its season with an 11-12 record in fourth place in the Southern Division. Fort Lauderdale finished with an 18-14 record, headed for the playoffs.

In another match, Tulsa's Franz Gerber

scored one goal and assisted another as the Roughnecks defeated San Jose, 2-0 in the regular season finale for both.

Tulsa finished the season at 16-16 and is headed for the playoffs. San Jose ended its year 13-19. Tulsa took a 1-0 lead just 2:55 into the contest, with Billy Caskey scoring his first goal since May 15 on a cross from Dave Huson. Huson had taken a pass from Gerber.

Gerber made the score 2-0 at 81:50, taking a pass from David Bradford and drilling his shot into the back of the net.

At Vancouver, San Diego Sockers scored four times in a shootout to defeat Vancouver Whitecaps 2-1 and move into first place in the Western Division.

The Sockers got shootout goals from Gert Wieczorkowski, Ade Coker, Kaz Deyna and Julie Vee, while the Whitecaps only managed goals from Peter Beardson and Gerry Gray.

## Soccer tid-bits

JAKARTA, (AP) — Sumiko Kitada of Japan beat two-time All-England women's champion Lene Koppen of Denmark 11-7, 11-5 in a semifinal action of the Indonesian Open Championship here Saturday. Kitada takes on Indonesia's Verawaty Fajrin in the final Sunday. In another match three-time All-England men's champion Liam Swie King lost to his countryman Liu Pongoh 9-15, 13-18.

TOLUCA, Mexico, (AP) — Lajos Portisch of Hungary defeated former world chess champion Boris Spassky of the Soviet Union to take the lead in the ninth round of the Interzonal Chess Qualifying Tournament here Saturday night.

LEICESTER, England, (AP) — Koichi Nakano of Japan and Sheila Young-Ochowicz of the United States will be defending their sprint titles at the World Cycling Championships, which open here Monday.

WESTBURY, New York, (AP) — Frank O'Mara drove the three-year-old Mystic Park to victory in the American Trotting Championship at the Roosevelt Raceway here Saturday.

**BRIEFS**

KUALA LUMPUR, (R) — Santa Katarina of Brazil beat Ghana 3-0 (halftime 1-0) here Sunday night to win the Merdeka Soccer Tournament. Larry Carlos (19th), Rogerio (52), Gerson Santana (87), were the scorers.

HUELVA, Spain, (AP) — English First Division club Nottingham Forest beat Athletic Bilbao 3-1 here to qualify for the final of the Colombian Trophy Soccer Tournament. Mark Procto (2) and Ian Wallace scored for Nottingham. Dani replied for Bilbao.

LONDON, (AP) — Chelsea's Yugoslav goalkeeper Petar Borota will fly to Portugal to sign for Benfica of Lisbon. Borota, who has been several seasons with the Second Division side, has been given a free transfer.

AMSTERDAM, (AP) — Dutch national champions Ajax of Amsterdam got off to a flying start on the opening weekend of the Honor Division with a 4-1 victory over Go Ahead Eagles of Deventer. In the lone surprise Nec of Nijmegen downed AZ of

PALMA. Majorca, (AP) — Diego Maradona failed to make an impact when he played in his first match for his new club, Barcelona, against Palma Football Club in a friendly match here last night. The visitors won 2-1, but Barcelona's goals were scored by Miguel and "Quique."



Nolan Ryan... nears Perry's mark

Art Howe... chips in

### Major League standings

American League				National League			
Eastern Division				Western Division			
W	L	Pct.	GB	W	L	Pct.	GB
71	50	.587	—	70	52	.574	—
65	56	.537	6	68	54	.557	2
63	57	.525	7½	64	58	.525	6
62	59	.512	9	63	59	.516	7
61	60	.504	10½	53	72	.424	18½
58	60	.491	11½	50	71	.413	19½
59	64	.480	13	48	76	.382	21½

Minnesota 45 79 .352 27  
St. Louis 76 52 .574 —  
Philadelphia 68 54 .557 —  
Montreal 64 58 .525 6  
Pittsburgh 63 59 .516 7  
Chicago 53 72 .424 18½  
New York 50 71 .413 19½  
Los Angeles 69 55 .556 —  
Atlanta 66 56 .541 —  
San Diego 65 55 .528 3½  
San Francisco 61 60 .516 5  
Houston 57 65 .467 11  
Cincinnati 47 76 .382 21½

## Steve Lundquist sinks own world breaststroke record

INDIANAPOLIS, Indiana Aug. 22 (AP) — Steve Lundquist broke his own month-old world record in the 100-meter breaststroke Saturday night at the U.S. Swimming Long Course National Championships.

Lundquist, 21, was clocked at 1 minute, 25.3 seconds, breaking the former world mark of 1:02.62 he set July 19 at Mission Viejo, California. Lundquist, a member of the 1980 U.S. Olympic team, also won the 100-breaststroke at the World Championships in Ecuador earlier this month. Saturday night's victory was his ninth national title.

John Moffet, 18, third-place finisher in both the 100- and 200-breaststroke events at the World Championships and winner of the 200-breaststroke earlier in this meet, finished second at 1:03.16. Third place went to Bill Barrett, 22, the winner of the 200-individual medley Friday night.

Lundquist's record swim followed an American record-breaking performance by Sue Walsh in the women's 100-backstroke. Walsh, 20, was timed at 1:02.48, breaking the U.S. record of 1:02.55 set by Linda Jezel in 1978. Betsy Mitchell, 16, was second at 1:04.02, and Debbie Risien, 16, was third at 1:04.11.

The biggest upset in the four-day meet came in the women's 100-breaststroke, when 16-year-old Kim Rhodenbaugh beat triple-gold medal winner Tracy Caulkins. Rhodenbaugh, a two-time national champion in the 200-yard breaststroke, beat the favored Caulkins at the 5-meter turn and stayed in front for a winning time of 1:01.79. Caulkins, 19, came in at 1:11.62 for second place — her first loss in that event in a national meet since 1977.

Caulkins, who earlier won the 200-backstroke and the 200 and 400-individual medleys, was trying for her 43rd national swimming title. Third place went to Shannon Orcutt, 16, at 1:12.47.

Rhodenbaugh's older brother, Mark, 18, won the gold medal in the men's 100-backstroke with a time of 56.90. Mark Rhodenbaugh set a national high school record in the 100-yard backstroke earlier this year. Second place went to David Bottom, 19, at 57.28. Tom Jager, 17, was third at 57.38.

Rhodenbaugh's older brother, Mark, 18, won the gold medal in the men's 100-backstroke with a time of 56.90. Mark Rhodenbaugh set a national high school record in the 100-yard backstroke earlier this year. Second place went to David Bottom, 19, at 57.28. Tom Jager, 17, was third at 57.38.

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